Pediatric Nutrition
(PedNSS)
Surveillance System

Summary of 2004 Data

South Dakota Department of Health
November 2005

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Pediatric Nutrition Surveillance System (PedNSS) Summary 2004

Information on the health of a population is essential for assessing health needs and planning programs to address those needs. Surveillance is the process of measuring specific health indicators in a given population on a continuous basis, allowing for the evaluation of a population over time.

This report provides a summary of the nutritional data collected in South Dakota through the Pediatric Nutrition Surveillance System (PedNSS) for the calendar year of 2004. PedNSS is a program of the Centers for Disease Control and Prevention (CDC) and was started in 1973. The first year of statewide data collection for South Dakota was 1995. Currently, nearly all the states and territories participate in PedNSS.

The data was obtained by using the records of infants and children participating in the South Dakota Special Supplemental Nutrition Program for Women, Infants, and Children (WIC). Data is available by clinic, county, region and state. Cheyenne River, Rosebud Sioux and Standing Rock Tribal WIC Programs data are not included in this report.

Data is presented in this report for the state as a whole, by regions and by county for each of the six nutrition indicators:
- Birth weight
    - Low birth weight (less than 2,500 grams or 5.5 pounds)
    - High birth weight (over 4,000 grams or 8.8 pounds)
- Short stature (low height-for-age)
- Underweight (low weight-for-height and low BMI-for-age)
- Overweight (high weight-for-height and high BMI-for-age)
- Anemia
- Breastfeeding
    - Ever breastfed
    - Breastfed at least 6 months
    - Breastfed at least 12 months

Individual clinics and counties with 100 or more individual children that could be analyzed are also reported separately. All clinics in a county are reported in county totals. All clinics statewide are reported in regional and state totals.

Data Collection and Reporting Changes

In 2004 the three Sioux Falls clinics; Downtown, Eastside and Westside, were consolidated into one. The Sioux Falls clinic data reflected in the tables of this report have been prorated to provide comparative three-year data.

Comparison of Data

PedNSS data can be collected in a variety of populations including WIC, Head Start, and Well Child Clinics (MCH). This report represents only infants and children participating in the WIC program of the South Dakota Department of Health. Care must be taken when comparing PedNSS data between states, as data is not always collected from identical populations. Care must also be taken when comparing the data in written reports before and after the recent PedNSS program changes in 2001. Data presented

in the main body of the report, including trend data, reflects the updated analysis of PedNSS.

In calendar year 2004, WIC served an average of 5,058 infants per month. This would indicate that approximately 45 percent of the total resident births, 11,339, in South Dakota were infants on WIC. The percentage of children varies greatly by county. All WIC participants are of limited income at or below 185 percent of the federal poverty level and have been determined to be at nutritional risk.

Limitations of Data

This is the eighth year that PedNSS data has been reported for South Dakota. Overall, the quality of the data is very good, but some sites may have more errors than others. Biologically Implausible Values (BIV) have a 1/1000 chance of being true data and are therefore considered to be an error. BIV's were not included in the data analysis.

The population of some counties is very small. All reported counties and clinics must have had at least 100 participants to have data analyzed. Only the total number of records analyzed and the percent of records with values that fell within the criteria were given for each indicator with at least 100 usable records. Data from counties and clinics with fewer than 100 records were not provided in this report as small numbers do not produce stable rates. The data used to compile this report consist of one unduplicated record per indicator per child.

When applicable, confidence intervals are given along with the rate of incidence for each county as well as for the state rate. This interval is based on the particular rate's standard error. The standard error defines a percentage's variability and is also used in calculating a confidence interval that can determine the actual variance of a percentage 95 percent of the time. That is, an interval in which a particular percentage will fall 95 percent of the time. The standard error takes into account the size of the sample being surveyed.

By applying the following formulas the standard error and the 95 percent confidence interval can be computed for the percent of respondents reporting each condition in the given period of time.

95 % Confidence Interval:
      Percent $\pm$ (1.645 * Standard Error)

Standard Error
      Percent / Square Root of the number of respondents reporting the condition
         (This produces an estimate of the standard error)
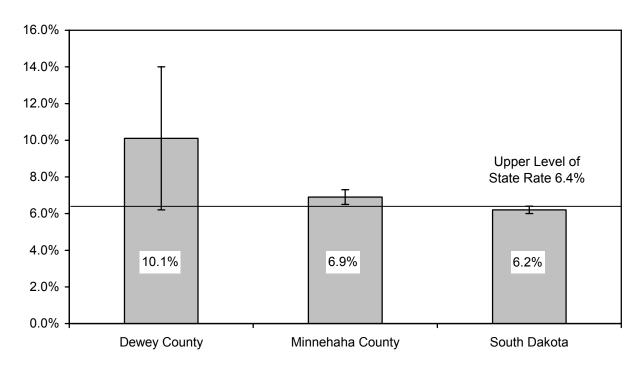
For example: the three-year PedNSS data, 2002-2004, indicates that 6.2 percent of the state's PedNSS children were short stature (low height-for-age) children. This was based on roughly 3,628 records (58,512 x .062) that indicated the children were short stature. An estimate of the standard error for the percent of short stature PedNSS children can be made by dividing the percent of children reported with short stature (6.2) by the square root of the number of short stature PedNSS children (Square Root of 3,628 $\cong$ 60.2). This gives us an estimated standard error of 0.103 percent (6.2/60.2). Using the estimated standard error in the formula above the 95 percent confidence

interval for the percent of short stature PedNSS children in the state for the three-year period can be calculated. Following this formula, we compute the 95 percent confidence interval for the state's rate of short stature children to be from 6.0 to 6.4 percent (6.2 ± 0.2).

Confidence intervals are useful where rates appear to be different, but the differences are not necessarily statistically significant. For example, in Dewey County there were 18 records of the 179 (179 x .101) analyzed that indicated the child was short stature for the three years 2002-2004. This gave a rate of 10.1 percent, which appears to be well above the state's rate of 6.2 percent. However, after computing the standard error, which takes into account the relatively few records in the county, we find that the 95 percent confidence interval is 3.9 percent. This makes the 95 percent confidence interval from 6.2 to 14.0 percent. Since the county interval overlaps the state's interval (6.0 to 6.4 percent), the differences are not statistically significant. On the other hand, compared to Dewey County, Minnehaha County had a lower rate, 6.9 percent, but since there were more records, 718 of the 10,403 (10,403 x .069) analyzed that indicated short stature children, the 95 percent confidence interval is smaller (0.4 percent). Since Minnehaha County's confidence interval (6.5 to 7.3 percent) does not overlap the state's interval, the difference is statistically significant. The data used in these examples are from Table 7, page 23.

The three-year data, provided in the tables, for the clinics, counties and regions that are significantly worse than the state wide values for that indicator are shaded to indicate these values are worse at the 0.05 level of confidence.

Figure 1
Using Confidence Intervals to Compare Data
Short Stature, 2002-2004 PedNSS Population

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Demographic Data

A total of 32,710 records for 20,707 individual children are included in the 2004 analysis. This represents the total records submitted, including those records later rejected because of critical errors, missing data, biologically implausible values and duplicate entries for a given individual.

After these records were removed, there were:
- 5,044 unique records analyzed for low and high birth weight babies (biologically implausible values that were excluded from analysis were birth weights less than 250 grams and those greater than 6,000 grams);
- 20,133 records analyzed for short stature, underweight and overweight children;
- 14,470 records analyzed for low hemoglobin; and
- 5,116 records analyzed for ever breastfeeding,
- 3,014 for breastfed at least 6 months and
- 2,325 for breastfed at least 12 months.

The racial/ethnic composition of South Dakota's PedNSS population as compared to the composition of the state as a whole is shown in Table 1. The Summary of Indicators (Table 2) shows the number of visits and individuals served, age distribution, race/ethnicity, program composition, and prevalence of low/high and abnormal values. The risk of infant mortality and other pediatric health outcomes may vary between populations.

Table 1

Race/Ethnicity	2004 PedNSS Population	2000 SD Population (Census)*
White	68.1%	88.7%
Black	3.0%	0.8%
American Indian or Alaskan Native	27.6%	9.0%
Asian or Pacific Islander	1.3%	0.8%
All Other/Unknown	0.0%	0.7%
Total	100.0%	100.0%

* From the U.S. Census Bureau Website: http://www.census.gov
        Multiple race categories were collapsed into most common minority status.

Summary of Indicators

Table 2

Pediatric Nutrition Surveillance System
Summary of Indicators
Reporting Period 01/01/2004 to 12/31/2004

1. Total Records	Total Records (All Visits)	Individual Children
	32,710	20,707

2. Age Distribution	Age	Number	Percent
	0-5 Months	5,169	25.0%
	6-11 Months	2,993	14.5%
	12-23 Months	3,698	17.9%
	24-35 Months	3,301	15.9%
	3-4 Years	5,546	26.8%

3. Race/Ethnicity	Race	Number	Percent
	White	14,109	68.1%
	Black	611	3.0%
	American Indian or Alaskan Native	5,719	27.6%
	Asian or Pacific Islander	264	1.3%
	All Other/Unknown	0	0.0%

4. Program Composition	Program	Number	Percent
	WIC	20,707	100%
	EPSDT	0	0.0%
	Medical Attention	0	0.0%
	Well Child (MCH)	0	0.0%
	Head Start	0	0.0%
	School Entrance	0	0.0%
	All Other	0	0.0%

Summary of Indicators

Table 2 (Continued)

Pediatric Nutrition Surveillance System
Summary of Indicators
Reporting Period 01/01/2004 to 12/31/2004

5. Prevalence of Low/High and Abnormal Values	Indicators	Individual Children	Percent
	Birth Weight		
	Low < 2,500 grams (5.5 pounds)	5,044	7.9
	High > 4,000 grams (8.8 pounds)	5,044	8.8
	Height and Weight		
	Short Stature < 5th Percentile	20,133	6.4
	Short Stature < 10th Percentile	20,133	11.1
	Underweight < 5th Percentile	20,133	3.1
	Underweight < 10th Percentile	20,133	5.7
	Overweight ≥ 95th Percentile (0-5 years)	20,133	14.1
	Overweight ≥2 years Old		
	Overweight 85th-< 95th Percentile	8,605	18.1
	Overweight ≥ 95th Percentile	8,605	13.9
	Anemia		
	Low Hemoglobin and/or Hematocrit	14,470	8.4
	Breastfeeding		
	Ever Breastfed	5,116	56.8
	Breastfed At Least 6 Months	3,014	19.4
	Breastfed At Least 12 Months	2,325	12.0

Overview of PedNSS Indicator Change

Indicators	Year 2004 (SD) 2003 (US)	Year 2003 (SD) 2002 (US)	Percent Change
Birth Weight			
Low			
South Dakota	7.9%	8.0%	-1.3%
United States	9.1%	8.9%	+2.2%
High			
South Dakota	8.8%	9.4%	-6.4%
United States	7.3%	7.6%	-3.9%
Short Statue			
South Dakota	6.4%	6.1%	+4.9%
United States	6.2%	6.3%	-1.6%
Underweight/Overweight (Ages 0 to 5 years)			
Underweight			
South Dakota	3.1%	3.5%	-11.4%
United States	5.2%	5.4%	-3.7%
Overweight			
South Dakota	14.1%	12.7%	+11.0%
United States	13.6%	13.5%	+0.7%
Overweight and At Risk of Overweight (Ages 2 to 5 years)			
At Risk of Overweight			
South Dakota	18.1%	17.7%	+2.3%
United States	15.7%	15.4%	+1.9%
Overweight			
South Dakota	13.9%	13.6%	+2.2%
United States	14.7%	14.3%	+2.8%
Anemia			
South Dakota	8.4%	7.6%	+10.5%
United States	12.8%	13.6%	-5.9%
Breastfeeding			
Ever Breastfed			
South Dakota	56.8%	55.9%	+1.6%
United States	53.2%	52.5%	+1.3%
At Least 6 Months			
South Dakota	19.4%	22.0%	-11.8%
United States	21.5%	20.8%	+3.4%
At Least 12 Months			
South Dakota	12.0%	13.1%	-8.4%
United States	13.6%	12.3%	+10.6%

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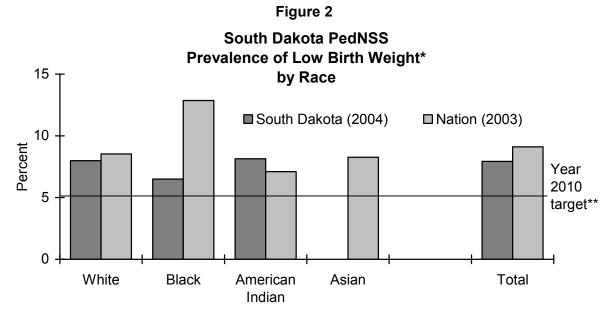
Birth Weight

Low Birth Weight

The system allows for analysis of low and high birth weight. Low birth weight is defined as a birth weight below 2,500 grams (or 5.5 pounds) and is a strong indicator of an increased risk of neonatal mortality. For infants weighing 2,500 grams or less, mortality rates increase rapidly with decreasing birth weights.

The Healthy People 2010 Goal: Low birth rate of 5.0 percent or less.

The South Dakota PedNSS population had a low birth weight rate of 7.9 percent in 2004, down from 8.0 percent in 2003. The South Dakota PedNSS population had a low birth weight rate of 8.1 percent over the three-year period 2002-2004. The United States PedNSS population had a low birth weight rate of 9.1 percent in calendar year 2003.

Low birth weight is a nutrition indicator of the PedNSS system that is also collected by other means in this state. The South Dakota Department of Health, Office of Data, Statistics and Vital Records, collects birth weight information from birth certificates. Birth records for calendar year 2004 show that 6.9 percent of live births in South Dakota were low birth weight births.

Figure 2

South Dakota PedNSS
Prevalence of Low Birth Weight*
by Race

* < 2500 grams, among infants born during the reporting period.
**   Reduce low birthweight to 5% of live births.
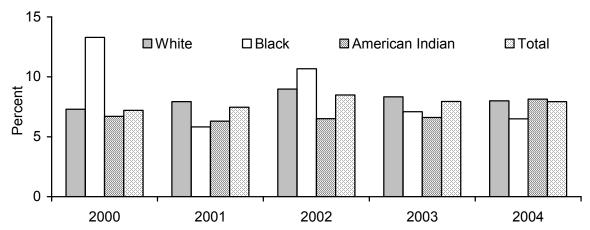
There are many risk factors that are known to potentially cause low birth weight and intrauterine growth retardation, although determining specific causes of low birth weight in segments of the population is difficult. Risk factors associated with low birth weight include: demographics (maternal age, marital status, ethnicity, education, and income), medical risks existing before pregnancy (weight status, obstetric history, parity and congenital anomalies), medical risks existing in current pregnancy (pregnancy induced hypertension, multiple pregnancy, poor weight gain), and environmental/behavioral factors (smoking, substance abuse, low socio-economic status, and poor nutrition).

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Figure 3

South Dakota PedNSS
Trends in Prevalence of Low Birth Weight*
by Race

* < 2500 grams, among infants born during the reporting period.
  Year 2010 target: Reduce low birthweight to 5% of live births

The percentage of low birth weight varied by race in South Dakota's 2004 PedNSS population. The rates were:
- 8.0 percent for whites
- 6.5 percent for blacks
- 8.1 percent for American Indian and Alaskan Natives.

High Birth Weight

High birth weight is defined as a birth weight higher than 4,000 grams (or 8.8 pounds) and may also be called Large for Gestational Age (LGA). For infants weighing 4,000 grams or more, mortality rates are higher than for infants weighing between 3,000 and 4,000 grams (6.6 and 8.8 pounds).

Large for Gestational Age may be a result of maternal diabetes (which may or may not have been diagnosed before or during pregnancy) and may result in obesity in childhood that could extend into adult life. Very large infants have a higher incidence of birth injuries and congenital anomalies (especially heart disease) and developmental and intellectual retardation. When large for gestational age occurs with pre-term birth, the mortality risk is higher than when either exists alone.

The South Dakota PedNSS population had a high birth weight rate of 8.8 percent in 2004, down from 9.4 percent in 2003. The South Dakota PedNSS population had a high birth weight rate of 9.4 percent over the three-year period 2002-2004. The United States PedNSS population had a high birth weight rate of 7.3 percent in calendar year 2003.
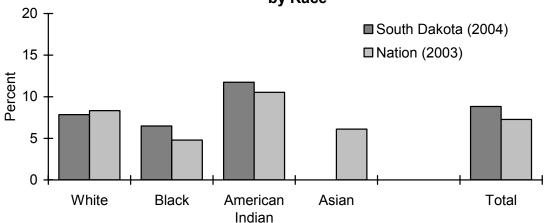
Birth records for calendar year 2004 show that 10.1 percent of live births in South Dakota were high birth weight births.

Figure 4

**South Dakota PedNSS
Prevelence of High Birth Weight*
by Race**
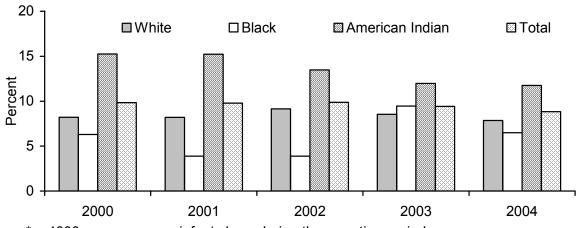
* >4000 grams, among infants born during the reporting period.

Figure 5

**South Dakota PedNSS
Trends in Prevelence of High Birth Weight*
by Race**

* >4000 grams, among infants born during the reporting period.

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Table 3

Pediatric Nutrition Surveillance System
Low Birth Weight
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Low Birth Weight (1)			Three Year Data (2002-2004) Low Birth Weight (1)		
	Total Records	Percent LBW	Confidence Interval	Total Records	Percent LBW	Confidence Interval
Aurora	**10**	*	*	**40**	*	*
Plankinton	10	*	*	40	*	*
Beadle	**132**	**10.6%**	**4.7%**	**332**	**9.9%**	**2.8%**
Huron	132	10.6%	4.7%	332	9.9%	2.8%
Bennett	**45**	*	*	**124**	**5.6%**	**3.5%**
Martin	45	*	*	124	5.6%	3.5%
Bon Homme	**23**	*	*	**85**	*	*
Tyndall	23	*	*	85	*	*
Brookings	**129**	**6.2%**	**3.6%**	**353**	**8.2%**	**2.5%**
Brookings	129	6.2%	3.6%	353	8.2%	2.5%
Brown	**189**	**7.9%**	**3.4%**	**585**	**8.7%**	**2.0%**
Aberdeen	189	7.9%	3.4%	585	8.7%	2.0%
Brule	**20**	*	*	**64**	*	*
Chamberlain	15	*	*	50	*	*
Kimball	5	*	*	14	*	*
Buffalo	**50**	*	*	**158**	**8.2%**	**3.7%**
Ft. Thompson	50	*	*	158	8.2%	3.7%
Butte	**82**	*	*	**216**	**12.0%**	**3.9%**
Belle Fourche	77	*	*	188	12.2%	4.2%
Newell	5	*	*	28	*	*
Charles Mix	**128**	**7.0%**	**3.8%**	**324**	**7.1%**	**2.4%**
Lake Andes	32	*	*	90	*	*
Platte	13	*	*	26	*	*
Wagner	83	*	*	208	6.7%	3.0%
Clark	**16**	*	*	**37**	*	*
Clark	16	*	*	37	*	*
Clay	**67**	*	*	**197**	**4.6%**	**2.5%**
Vermillion	67	*	*	197	4.6%	2.5%
Codington	**188**	**8.5%**	**3.5%**	**513**	**9.6%**	**2.3%**
Watertown	188	8.5%	3.5%	513	9.6%	2.3%
Corson	**#**	*	*	**5**	*	*
McLaughlin	#	*	*	5	*	*
Custer	**23**	*	*	**69**	*	*
Custer	23	*	*	69	*	*
Davison	**147**	**6.1%**	**3.4%**	**388**	**6.2%**	**2.1%**
Mitchell	147	6.1%	3.4%	388	6.2%	2.1%
Day	**26**	*	*	**95**	*	*
Webster	26	*	*	95	*	*
Deuel	**16**	*	*	**38**	*	*
Clear Lake	16	*	*	38	*	*

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
(1) Birth weights less than 2,500 grams; excludes birth weights less than 250 grams.
*   Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.
# South Dakota Department of Health policy does not permit releasing data with fewer than three events.

Table 3 (Continued)

Pediatric Nutrition Surveillance System
Low Birth Weight
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Low Birth Weight (1)			Three Year Data (2002-2004) Low Birth Weight (1)		
	Total Records	Percent LBW	Confidence Interval	Total Records	Percent LBW	Confidence Interval
Dewey	**16**	*	*	**47**	*	*
Isabel	7	*	*	13	*	*
Timber Lake	9	*	*	34	*	*
Douglas	**12**	*	*	**34**	*	*
Armour	12	*	*	34	*	*
Edmunds	**12**	*	*	**32**	*	*
Bowdle	9	*	*	20	*	*
Ipswich	3	*	*	12	*	*
Fall River	**58**	*	*	**143**	**8.4%**	**4.0%**
Hot Springs	58	*	*	143	8.4%	4.0%
Faulk	**7**	*	*	**23**	*	*
Faulkton	7	*	*	23	*	*
Grant	**33**	*	*	**123**	**8.1%**	**4.2%**
Milbank	33	*	*	123	8.1%	4.2%
Gregory	**26**	*	*	**64**	*	*
Bonesteel	9	*	*	17	*	*
Burke	17	*	*	47	*	*
Haakon	**5**	*	*	**22**	*	*
Philip	5	*	*	22	*	*
Hamlin	**28**	*	*	**101**	**5.9%**	**4.0%**
Hayti	28	*	*	101	5.9%	4.0%
Hand	**16**	*	*	**45**	*	*
Miller	16	*	*	45	*	*
Hanson	**17**	*	*	**49**	*	*
Alexandria	17	*	*	49	*	*
Harding	**3**	*	*	**10**	*	*
Buffalo	3	*	*	10	*	*
Hughes	**86**	*	*	**306**	**6.2%**	**2.3%**
Pierre	86	*	*	306	6.2%	2.3%
Hutchinson	**24**	*	*	**68**	*	*
Freeman	15	*	*	35	*	*
Parkston	9	*	*	33	*	*
Hyde	**8**	*	*	**23**	*	*
Highmore	8	*	*	23	*	*
Jackson	**40**	*	*	**125**	**9.6%**	**4.6%**
Kadoka	14	*	*	27	*	*
Wanblee	26	*	*	98	*	*
Jerauld	**8**	*	*	**22**	*	*
Wessington Springs	8	*	*	22	*	*
Jones	**7**	*	*	**28**	*	*
Murdo	7	*	*	28	*	*

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Table 3 (Continued)

Pediatric Nutrition Surveillance System
Low Birth Weight
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Low Birth Weight (1)			Three Year Data (2002-2004) Low Birth Weight (1)		
	Total Records	Percent LBW	Confidence Interval	Total Records	Percent LBW	Confidence Interval
Kingsbury	**4**	*	*	**21**	*	*
De Smet	4	*	*	21	*	*
Lake	**48**	*	*	**154**	**11.0%**	**4.4%**
Madison	48	*	*	154	11.0%	4.4%
Lawrence	**121**	**8.3%**	**4.3%**	**362**	**7.5%**	**2.4%**
Deadwood	30	*	*	101	9.9%	5.2%
Spearfish	91	*	*	261	6.5%	2.6%
Lincoln	**27**	*	*	**85**	*	*
Canton	27	*	*	85	*	*
Lyman	**47**	*	*	**142**	**4.2%**	**2.8%**
Kennebec	5	*	*	20	*	*
Lower Brule	42	*	*	122	3.3%	2.7%
Marshall	**12**	*	*	**30**	*	*
Britton	12	*	*	30	*	*
McCook	**30**	*	*	**81**	*	*
Salem	30	*	*	81	*	*
McPherson	**4**	*	*	**22**	*	*
Eureka	#	*	*	12	*	*
Leola	#	*	*	10	*	*
Meade	**85**	*	*	**246**	**8.5%**	**3.1%**
Faith	7	*	*	27	*	*
Sturgis	78	*	*	219	8.7%	3.3%
Miner	**9**	*	*	**23**	*	*
Howard	9	*	*	23	*	*
Minnehaha	**1,108**	**7.9%**	**1.4%**	**3,118**	**8.9%**	**0.9%**
Sioux Falls	1,108	7.9%	1.4%	3,118	8.9%	0.9%
Moody	**35**	*	*	**98**	*	*
Flandreau	35	*	*	98	*	*
Pennington	**1,000**	**7.6%**	**1.4%**	**2,963**	**7.5%**	**0.8%**
Ellsworth	133	7.5%	3.9%	397	6.3%	2.1%
Hill City	27	*	*	56	*	*
Rapid City	834	7.7%	1.6%	2,484	7.9%	0.9%
Wall	6	*	*	26	*	*
Perkins	**16**	*	*	**57**	*	*
Bison	5	*	*	16	*	*
Lemmon	11	*	*	41	*	*

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (1) Birth weights less than 2,500 grams; excludes birth weights less than 250 grams.
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Table 3 (Continued)

Pediatric Nutrition Surveillance System
Low Birth Weight
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Low Birth Weight (1)			Three Year Data (2002-2004) Low Birth Weight (1)		
	Total Records	Percent LBW	Confidence Interval	Total Records	Percent LBW	Confidence Interval
Potter	**9**	*	*	**32**	*	*
Hoven	9	*	*	32	*	*
Roberts	**135**	**8.1%**	**4.0%**	**330**	**7.3%**	**2.4%**
Sisseton	135	8.1%	4.0%	330	7.3%	2.4%
Sanborn	**6**	*	*	**29**	*	*
Woonsocket	6	*	*	29	*	*
Shannon	**336**	**9.8%**	**2.8%**	**1,009**	**8.1%**	**1.5%**
Kyle	83	*	*	258	10.9%	3.4%
Manderson	33	*	*	92	*	*
Pine Ridge	193	7.8%	3.3%	573	7.2%	1.8%
Porcupine	27	*	*	86	*	*
Spink	**28**	*	*	**94**	*	*
Redfield	28	*	*	94	*	*
Stanley	**25**	*	*	**65**	*	*
Ft. Pierre	25	*	*	65	*	*
Sully	**#**	*	*	**8**	*	*
Onida	#	*	*	8	*	*
Tripp	**51**	*	*	**129**	**4.7%**	**3.1%**
Winner	51	*	*	129	4.7%	3.1%
Turner	**21**	*	*	**69**	*	*
Parker	11	*	*	27	*	*
Viborg	10	*	*	42	*	*
Union	**35**	*	*	**123**	**7.3%**	**4.0%**
Elk Point	35	*	*	123	7.3%	4.0%
Walworth	**29**	*	*	**110**	**5.5%**	**3.7%**
Mobridge	#	*	*	102	5.9%	4.0%
Selby	#	*	*	8	*	*
Yankton	**118**	**15.3%**	**5.9%**	**370**	**9.2%**	**2.6%**
Yankton	118	15.3%	5.9%	370	9.2%	2.6%
Ziebach	**4**	*	*	**21**	*	*
Dupree	4	*	*	21	*	*
Healthy People 2010		**5.0%**			**5.0%**	
Statewide PedNSS	**5,044**	**7.9%**	**0.7%**	**14,679**	**8.1%**	**0.4%**
National 2003		**9.1%**			**0.0%**	

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (1) Birth weights less than 2,500 grams; excludes birth weights less than 250 grams.
* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of
    reliability or precision.
South Dakota Department of Health policy does not permit releasing data with fewer than three events.

Table 4

Pediatric Nutrition Surveillance System
Low Birth Weight
Reporting Period 01/01/2004 to 12/31/2004

Region**	2004 Data Low Birth Weight (1)			Three Year Data (2002-2004) Low Birth Weight (1)		
	Total Records	Percent LBW	Confidence Interval	Total Records	Percent LBW	Confidence Interval
Aberdeen Area	227	7.0%	2.9%	710	8.0%	1.7%
East Central	196	6.1%	2.9%	573	8.4%	2.0%
Huron-Redfield	160	10.0%	4.1%	426	9.4%	2.4%
Mitchell-Chamberlain	208	10.1%	3.6%	892	9.1%	1.7%
Northern Black Hills	206	8.7%	3.4%	608	7.9%	1.9%
Northeast Area	388	9.3%	2.5%	1,041	8.4%	1.5%
North Central	54	*	*	192	6.3%	3.0%
Northwest Area	121	1.7%	1.9%	351	9.7%	2.7%
Oahe Area	146	5.5%	3.2%	479	5.8%	1.8%
Pickstown Area	213	5.6%	2.7%	575	7.7%	1.9%
Pine Ridge Area	421	10.2%	2.6%	1,258	8.0%	1.3%
Rapid City Area	1,000	7.6%	1.4%	2,963	7.5%	0.8%
Southeast Area	220	10.0%	3.5%	690	7.5%	1.7%
Sioux Falls Area	1,108	7.9%	1.4%	3,118	8.9%	0.9%
Sioux Empire Area	135	6.7%	3.7%	412	9.2%	2.5%
South Central	160	5.6%	3.1%	479	5.8%	1.8%
Southern Black Hills	81	*	*	212	9.4%	3.5%
Healthy People 2010		**5.0%**			**5.0%**	
Statewide PedNSS	**5,044**	**7.9%**	**0.7%**	**14,679**	**8.1%**	**0.4%**
National 2003		**9.1%**				

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
(1) Birth weights less than 2,500 grams; excludes birth weights less than 250 grams.
*   Data from regions with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.
** Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

Table 5

Pediatric Nutrition Surveillance System
High Birth Weight
Reporting Period 01/01/2004 to 12/31/2004

County	2004 Data High Birth Weight (2)			Three Year Data (2002-2004) High Birth Weight (2)		
Clinic	Total Records	Percent HBW	Confidence Interval	Total Records	Percent HBW	Confidence Interval
Aurora	**10**	*	*	**40**	*	*
Plankinton	10	*	*	40	*	*
Beadle	**132**	**6.8%**	**3.7%**	**332**	**9.0%**	**2.7%**
Huron	132	6.8%	3.7%	332	9.0%	2.7%
Bennett	**45**	*	*	**124**	**16.1%**	**5.9%**
Martin	45	*	*	124	16.1%	5.9%
Bon Homme	**23**	*	*	**85**	*	*
Tyndall	23	*	*	85	*	*
Brookings	**129**	**11.6%**	**4.9%**	**353**	**10.8%**	**2.9%**
Brookings	129	11.6%	4.9%	353	10.8%	2.9%
Brown	**189**	**7.9%**	**3.4%**	**585**	**11.6%**	**2.3%**
Aberdeen	189	7.9%	3.4%	585	11.6%	2.3%
Brule	**20**	*	*	**64**	*	*
Chamberlain	15	*	*	50	*	*
Kimball	5	*	*	14	*	*
Buffalo	**50**	*	*	**158**	**13.9%**	**4.9%**
Ft. Thompson	50	*	*	158	13.9%	4.9%
Butte	**82**	*	*	**216**	**5.6%**	**2.6%**
Belle Fourche	77	*	*	188	4.3%	2.5%
Newell	5	*	*	28	*	*
Charles Mix	**128**	**6.3%**	**3.6%**	**324**	**9.9%**	**2.9%**
Lake Andes	32	*	*	90	*	*
Platte	13	*	*	26	*	*
Wagner	83	*	*	208	8.2%	3.3%
Clark	**16**	*	*	**37**	*	*
Clark	16	*	*	37	*	*
Clay	**67**	*	*	**197**	**15.2%**	**4.6%**
Vermillion	67	*	*	197	15.2%	4.6%
Codington	**188**	**7.4%**	**3.3%**	**513**	**7.2%**	**1.9%**
Watertown	188	7.4%	3.3%	513	7.2%	1.9%
Corson	**#**	*	*	**5**	*	*
McLaughlin	#	*	*	5	*	*
Custer	**23**	*	*	**69**	*	*
Custer	23	*	*	69	*	*
Davison	**147**	**7.5%**	**3.7%**	**388**	**8.2%**	**2.4%**
Mitchell	147	7.5%	3.7%	388	8.2%	2.4%
Day	**26**	*	*	**95**	*	*
Webster	26	*	*	95	*	*
Deuel	**16**	*	*	**38**	*	*
Clear Lake	16	*	*	38	*	*

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (2) Birth weights greater than 4,000 grams; excludes birth weights greater than 6,000 grams.
 *   Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of
      reliability or precision.
 # South Dakota Department of Health policy does not permit releasing data with fewer than three events.

Table 5 (Continued)

Pediatric Nutrition Surveillance System
High Birth Weight
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data High Birth Weight (2)			Three Year Data (2002-2004) High Birth Weight (2)		
	Total Records	Percent HBW	Confidence Interval	Total Records	Percent HBW	Confidence Interval
Dewey	**16**	*	*	**47**	*	*
Isabel	7	*	*	13	*	*
Timber Lake	9	*	*	34	*	*
Douglas	**12**	*	*	**34**	*	*
Armour	12	*	*	34	*	*
Edmunds	**12**	*	*	**32**	*	*
Bowdle	9	*	*	20	*	*
Ipswich	3	*	*	12	*	*
Fall River	**58**	*	*	**143**	**3.5%**	**2.6%**
Hot Springs	58	*	*	143	3.5%	2.6%
Faulk	**7**	*	*	**23**	*	*
Faulkton	7	*	*	23	*	*
Grant	**33**	*	*	**123**	**5.7%**	**3.5%**
Milbank	33	*	*	123	5.7%	3.5%
Gregory	**26**	*	*	**64**	*	*
Bonesteel	9	*	*	17	*	*
Burke	17	*	*	47	*	*
Haakon	**5**	*	*	**22**	*	*
Philip	5	*	*	22	*	*
Hamlin	**28**	*	*	**101**	**16.8%**	**6.7%**
Hayti	28	*	*	101	16.8%	6.7%
Hand	**16**	*	*	**45**	*	*
Miller	16	*	*	45	*	*
Hanson	**17**	*	*	**49**	*	*
Alexandria	17	*	*	49	*	*
Harding	**3**	*	*	**10**	*	*
Buffalo	3	*	*	10	*	*
Hughes	**86**	*	*	**306**	**7.8%**	**2.6%**
Pierre	86	*	*	306	7.8%	2.6%
Hutchinson	**24**	*	*	**68**	*	*
Freeman	15	*	*	35	*	*
Parkston	9	*	*	33	*	*
Hyde	**8**	*	*	**23**	*	*
Highmore	8	*	*	23	*	*
Jackson	**40**	*	*	**125**	**17.6%**	**6.2%**
Kadoka	14	*	*	27	*	*
Wanblee	26	*	*	98	*	*
Jerauld	**8**	*	*	**22**	*	*
Wessington Springs	8	*	*	22	*	*
Jones	**7**	*	*	**28**	*	*
Murdo	7	*	*	28	*	*

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (2) Birth weights greater than 4,000 grams; excludes birth weights greater than 6,000 grams.
*   Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.
# South Dakota Department of Health policy does not permit releasing data with fewer than three events.

Table 5 (Continued)

Pediatric Nutrition Surveillance System
High Birth Weight
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data High Birth Weight (2)			Three Year Data (2002-2004) High Birth Weight (2)		
	Total Records	Percent HBW	Confidence Interval	Total Records	Percent HBW	Confidence Interval
Kingsbury	**4**	*	*	**21**	*	*
De Smet	4	*	*	21	*	*
Lake	**48**	*	*	**154**	**7.1%**	**3.5%**
Madison	48	*	*	154	7.1%	3.5%
Lawrence	**121**	**5.0%**	**3.3%**	**362**	**3.9%**	**1.7%**
Deadwood	30	*	*	101	3.0%	2.8%
Spearfish	91	*	*	261	4.2%	2.1%
Lincoln	**27**	*	*	**85**	*	*
Canton	27	*	*	85	*	*
Lyman	**47**	*	*	**142**	**4.9%**	**3.1%**
Kennebec	5	*	*	20	*	*
Lower Brule	42	*	*	122	4.9%	3.3%
Marshall	**12**	*	*	**30**	*	*
Britton	12	*	*	30	*	*
McCook	**30**	*	*	**81**	*	*
Salem	30	*	*	81	*	*
McPherson	**4**	*	*	**22**	*	*
Eureka	#	*	*	12	*	*
Leola	#	*	*	10	*	*
Meade	**85**	*	*	**246**	**8.5%**	**3.1%**
Faith	7	*	*	27	*	*
Sturgis	78	*	*	219	7.8%	3.1%
Miner	**9**	*	*	**23**	*	*
Howard	9	*	*	23	*	*
Minnehaha	**1,108**	**7.9%**	**1.4%**	**3,118**	**8.9%**	**0.9%**
Sioux Falls	1,108	7.9%	1.4%	3,118	8.9%	0.9%
Moody	**35**	*	*	**98**	*	*
Flandreau	35	*	*	98	*	*
Pennington	**1,000**	**8.2%**	**1.5%**	**2,963**	**7.9%**	**0.8%**
Ellsworth	133	3.8%	2.8%	397	5.0%	1.8%
Hill City	27	*	*	56	*	*
Rapid City	834	9.2%	1.7%	2,484	8.5%	1.0%
Wall	6	*	*	26	*	*
Perkins	**16**	*	*	**57**	*	*
Bison	5	*	*	16	*	*
Lemmon	11	*	*	41	*	*

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.

(2) Birth weights greater than 4,000 grams; excludes birth weights greater than 6,000 grams.

* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

\# South Dakota Department of Health policy does not permit releasing data with fewer than three events.

Table 5 (Continued)

Pediatric Nutrition Surveillance System
High Birth Weight
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data High Birth Weight (2)			Three Year Data (2002-2004) High Birth Weight (2)		
	Total Records	Percent HBW	Confidence Interval	Total Records	Percent HBW	Confidence Interval
Potter	**9**	*	*	**32**	*	*
Hoven	9	*	*	32	*	*
Roberts	**135**	**18.5%**	**6.1%**	**330**	**18.2%**	**3.9%**
Sisseton	135	18.5%	6.1%	330	18.2%	3.9%
Sanborn	**6**	*	*	**29**	*	*
Woonsocket	6	*	*	29	*	*
Shannon	**336**	**11.0%**	**3.0%**	**1,009**	**11.9%**	**1.8%**
Kyle	83	*	*	258	15.5%	4.0%
Manderson	33	*	*	92	*	*
Pine Ridge	193	11.9%	4.1%	573	11.0%	2.3%
Porcupine	27	*	*	86	*	*
Spink	**28**	*	*	**94**	*	*
Redfield	28	*	*	94	*	*
Stanley	**25**	*	*	**65**	*	*
Ft. Pierre	25	*	*	65	*	*
Sully	**#**	*	*	**8**	*	*
Onida	#	*	*	8	*	*
Tripp	**51**	*	*	**129**	**10.1%**	**4.6%**
Winner	51	*	*	129	10.1%	4.6%
Turner	**21**	*	*	**69**	*	*
Parker	11	*	*	27	*	*
Viborg	10	*	*	42	*	*
Union	**35**	*	*	**123**	**8.9%**	**4.4%**
Elk Point	35	*	*	123	8.9%	4.4%
Walworth	**29**	*	*	**110**	**10.0%**	**5.0%**
Mobridge	#	*	*	102	9.8%	5.1%
Selby	#	*	*	8	*	*
Yankton	**118**	**10.2%**	**4.8%**	**370**	**11.1%**	**2.8%**
Yankton	118	10.2%	4.8%	370	11.1%	2.8%
Ziebach	**4**	*	*	**21**	*	*
Dupree	4	*	*	21	*	*
Statewide PedNSS	**5,044**	**8.8%**	**0.7%**	**14,679**	**9.4%**	**0.4%**
National 2003		**7.3%**				

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (2) Birth weights greater than 4,000 grams; excludes birth weights greater than 6,000 grams.
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     reliability or precision.
South Dakota Department of Health policy does not permit releasing data with fewer than three events.

Table 6

Pediatric Nutrition Surveillance System
High Birth Weight
Reporting Period 01/01/2004 to 12/31/2004

Region**	2004 Data High Birth Weight (2)			Three Year Data (2002-2004) High Birth Weight (2)		
	Total Records	Percent HBW	Confidence Interval	Total Records	Percent HBW	Confidence Interval
Aberdeen Area	227	7.9%	3.1%	710	11.8%	2.1%
East Central	196	12.2%	4.1%	573	11.9%	2.4%
Huron-Redfield	160	6.9%	3.4%	426	9.4%	2.4%
Mitchell-Chamberlain	208	7.2%	3.1%	892	8.3%	1.6%
Northern Black Hills	206	6.8%	3.0%	608	5.8%	1.6%
Northeast Area	388	11.1%	2.8%	1,041	10.6%	1.7%
North Central	54	*	*	192	10.9%	3.9%
Northwest Area	121	6.6%	3.8%	351	6.6%	2.3%
Oahe Area	146	6.2%	3.4%	479	8.4%	2.2%
Pickstown Area	213	7.0%	3.0%	575	9.9%	2.2%
Pine Ridge Area	421	10.7%	2.6%	1,258	12.9%	1.7%
Rapid City Area	1,000	8.2%	1.5%	2,963	7.9%	0.8%
Southeast Area	220	11.8%	3.8%	690	11.9%	2.2%
Sioux Falls Area	1,108	7.9%	1.4%	3,118	8.9%	0.9%
Sioux Empire Area	135	16.3%	5.7%	412	10.2%	2.6%
South Central	160	11.3%	4.4%	479	9.2%	2.3%
Southern Black Hills	81	*	*	212	3.8%	2.2%
Statewide PedNSS	**5,044**	**8.8%**	**0.7%**	**14,679**	**9.4%**	**0.4%**
National 2003		**7.3%**				

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (2) Birth weights greater than 4,000 grams; excludes birth weights greater than 6,000 grams.
* Data from regions with less than 100 records per year were not analyzed as the values do not meet standards of reliability
    or precision.
** Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

Short Stature

Short stature is defined as a height-for-age below the 5th percentile for children of the same height and age in the reference populations used by the National Center for Health Statistics (NCHS) / CDC. Measurements of height are obtained by recumbent (lying down) measurement in children through 24 months and by upright measurement in children over 24 months.

Short stature may be evidence of compromised health, delayed development, and poor diet. Compromised nutrition, and/or infectious and chronic disease may impair full growth potential.

The Healthy People 2010 Goal: Target for Pediatric stunting: is to "reduce growth retardation among low-income children under 5 years of age to 5 percent.

The South Dakota rate of short stature among PedNSS records in 2004 was 6.4 percent, up from 6.1 percent in 2003. The South Dakota PedNSS population had a short stature rate of 6.2 percent over the three-year period 2002-2004. The United States PedNSS population had a short stature rate of 6.2 percent in calendar year 2003.

Figure 6

South Dakota PedNSS
Prevalence of Short Stature*
Among Children Aged <5 Years, by Race
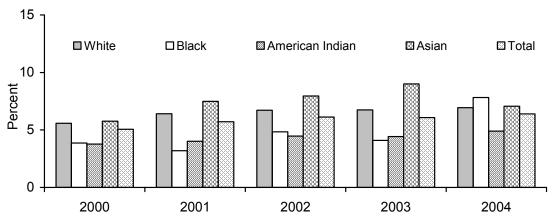
* < 5th percentile length or height-for-age, CDC Growth Charts, 2000.
** Reduce growth retardation (short stature) among low-income children under age 5 years to 5%.

Figure 7

South Dakota PedNSS
Trends in Prevalence of Short Stature*
by Race

* < 5th percentile length or height-for-age, CDC Growth Charts, 2000.
   Year 2010 target: Reduce growth retardation (short stature) among low-income children under
   age 5 years to 5%.

The percentage of short stature varied by race in South Dakota's 2004 PedNSS
population. The rates were:
- 6.9 percent for whites
- 7.8 percent for blacks,
- 4.9 percent for American Indians or Alaskan Natives
- 7.1 percent for Asian or Pacific Islander.

The age breakdown for this population was:
- less than one year, 9.7 percent
- one year, 5.2 percent
- 2-4 years, 3.9 percent

Table 7

Pediatric Nutrition Surveillance System
Low Height-for-Age
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Low Height-for-Age (3)			Three Year Data (2002-2004) Low Height-for-Age (3)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Aurora	**65**	*	*	**212**	**6.6%**	**2.9%**
Plankinton	65	*	*	212	6.6%	2.9%
Beadle	**475**	**7.6%**	**2.1%**	**1,376**	**7.8%**	**1.2%**
Huron	475	7.6%	2.1%	1,376	7.8%	1.2%
Bennett	**217**	**7.4%**	**3.0%**	**600**	**6.3%**	**1.7%**
Martin	217	7.4%	3.0%	600	6.3%	1.7%
Bon Homme	**150**	**6.0%**	**3.3%**	**456**	**7.7%**	**2.1%**
Tyndall	150	6.0%	3.3%	456	7.7%	2.1%
Brookings	**503**	**6.0%**	**1.8%**	**1,442**	**5.5%**	**1.0%**
Brookings	503	6.0%	1.8%	1,442	5.5%	1.0%
Brown	**805**	**5.5%**	**1.4%**	**2,293**	**5.7%**	**0.8%**
Aberdeen	805	5.5%	1.4%	2,293	5.7%	0.8%
Brule	**110**	**5.5%**	**3.7%**	**352**	**4.3%**	**1.8%**
Chamberlain	93	*	*	290	3.4%	1.8%
Kimball	17	*	*	62	*	*
Buffalo	**230**	**3.0%**	**1.9%**	**677**	**3.7%**	**1.2%**
Ft. Thompson	230	3.0%	1.9%	677	3.7%	1.2%
Butte	**337**	**3.3%**	**1.6%**	**944**	**5.7%**	**1.3%**
Belle Fourche	288	3.5%	1.8%	796	6.2%	1.5%
Newell	49	*	*	148	3.4%	2.5%
Charles Mix	**511**	**3.9%**	**1.4%**	**1,472**	**3.6%**	**0.8%**
Lake Andes	151	4.0%	2.7%	416	3.4%	1.5%
Platte	54	*	*	149	5.4%	3.1%
Wagner	306	3.3%	1.7%	907	3.4%	1.0%
Clark	**81**	*	*	**228**	**6.1%**	**2.7%**
Clark	81	*	*	228	6.1%	2.7%
Clay	**288**	**7.6%**	**2.7%**	**889**	**5.7%**	**1.3%**
Vermillion	288	7.6%	2.7%	889	5.7%	1.3%
Codington	**670**	**6.9%**	**1.7%**	**2,040**	**6.6%**	**0.9%**
Watertown	670	6.9%	1.7%	2,040	6.6%	0.9%
Corson	**10**	*	*	**38**	*	*
McLaughlin	10	*	*	38	*	*
Custer	**115**	**7.8%**	**4.3%**	**321**	**8.1%**	**2.6%**
Custer	115	7.8%	4.3%	321	8.1%	2.6%
Davison	**503**	**6.8%**	**1.9%**	**1,407**	**7.0%**	**1.2%**
Mitchell	503	6.8%	1.9%	1,407	7.0%	1.2%
Day	**164**	**1.8%**	**1.7%**	**501**	**3.6%**	**1.4%**
Webster	164	1.8%	1.7%	501	3.6%	1.4%
Deuel	**58**	*	*	**154**	**5.2%**	**3.0%**
Clear Lake	58	*	*	154	5.2%	3.0%

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (3) Low Height-For-Age: less than 5th percentile based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older; excludes biologically implausible values for height, weight, and age.
* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 7 (Continued)

Pediatric Nutrition Surveillance System
Low Height-for-Age
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Low Height-for-Age (3)			Three Year Data (2002-2004) Low Height-for-Age (3)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Dewey	**55**	*	*	**179**	**10.1%**	**3.9%**
Isabel	16	*	*	53	*	*
Timber Lake	39	*	*	126	9.5%	4.5%
Douglas	**54**	*	*	**176**	**3.4%**	**2.3%**
Armour	54	*	*	176	3.4%	2.3%
Edmunds	**55**	*	*	**165**	**2.4%**	**2.0%**
Bowdle	41	*	*	119	3.4%	2.8%
Ipswich	14	*	*	46	*	*
Fall River	**210**	**4.3%**	**2.4%**	**577**	**6.2%**	**1.7%**
Hot Springs	210	4.3%	2.4%	577	6.2%	1.7%
Faulk	**39**	*	*	**122**	**2.5%**	**2.4%**
Faulkton	39	*	*	122	2.5%	2.4%
Grant	**156**	**3.8%**	**2.6%**	**527**	**4.7%**	**1.6%**
Milbank	156	3.8%	2.6%	527	4.7%	1.6%
Gregory	**105**	**7.6%**	**4.4%**	**313**	**7.0%**	**2.5%**
Bonesteel	25	*	*	79	*	*
Burke	80	*	*	234	6.4%	2.7%
Haakon	**36**	*	*	**140**	**5.0%**	**3.1%**
Philip	36	*	*	140	5.0%	3.1%
Hamlin	**151**	**11.9%**	**4.6%**	**461**	**10.6%**	**2.5%**
Hayti	151	11.9%	4.6%	461	10.6%	2.5%
Hand	**65**	*	*	**226**	**4.4%**	**2.3%**
Miller	65	*	*	226	4.4%	2.3%
Hanson	**89**	*	*	**255**	**7.8%**	**2.9%**
Alexandria	89	*	*	255	7.8%	2.9%
Harding	**14**	*	*	**42**	*	*
Buffalo	14	*	*	42	*	*
Hughes	**417**	**6.5%**	**2.1%**	**1,193**	**6.2%**	**1.2%**
Pierre	417	6.5%	2.1%	1,193	6.2%	1.2%
Hutchinson	**109**	**5.5%**	**3.7%**	**326**	**8.9%**	**2.7%**
Freeman	64	*	*	162	8.6%	3.8%
Parkston	45	*	*	164	9.1%	3.9%
Hyde	**44**	*	*	**134**	**4.5%**	**3.0%**
Highmore	44	*	*	134	4.5%	3.0%
Jackson	**234**	**3.4%**	**2.0%**	**676**	**3.6%**	**1.2%**
Kadoka	54	*	*	158	5.7%	3.1%
Wanblee	180	2.8%	2.1%	518	2.9%	1.2%
Jerauld	**43**	*	*	**104**	**12.5%**	**5.7%**
Wessington Springs	43	*	*	104	12.5%	5.7%
Jones	**44**	*	*	**148**	**4.1%**	**2.7%**
Murdo	44	*	*	148	4.1%	2.7%

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (3) Low Height-For-Age: less than 5th percentile based on 2000 CDC growth chart percentiles for length-for-age for children
    under 2 years of age and height-for-age for children 2 years of age and older; excludes biologically implausible values for
    height, weight, and age.
 * Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of
    reliability or precision.

Table 7 (Continued)

Pediatric Nutrition Surveillance System
Low Height-for-Age
Reporting Period 01/01/2004 to 12/31/2004

County	2004 Data Low Height-for-Age (3)			Three Year Data (2002-2004) Low Height-for-Age (3)		
Clinic	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Kingsbury	**45**	*	*	**147**	**6.8%**	**3.5%**
De Smet	45	*	*	147	6.8%	3.5%
Lake	**195**	**7.7%**	**3.3%**	**603**	**8.6%**	**2.0%**
Madison	195	7.7%	3.3%	603	8.6%	2.0%
Lawrence	**438**	**10.5%**	**2.5%**	**1,311**	**8.6%**	**1.3%**
Deadwood	128	9.4%	4.5%	405	8.4%	2.4%
Spearfish	310	11.0%	3.1%	906	8.7%	1.6%
Lincoln	**111**	**3.6%**	**3.0%**	**361**	**5.3%**	**2.0%**
Canton	111	3.6%	3.0%	361	5.3%	2.0%
Lyman	**256**	**3.9%**	**2.0%**	**734**	**4.5%**	**1.3%**
Kennebec	40	*	*	127	6.3%	3.7%
Lower Brule	216	3.2%	2.0%	607	4.1%	1.4%
Marshall	**63**	*	*	**168**	**4.8%**	**2.8%**
Britton	63	*	*	168	4.8%	2.8%
McCook	**122**	**5.7%**	**3.6%**	**339**	**8.3%**	**2.6%**
Salem	122	5.7%	3.6%	339	8.3%	2.6%
McPherson	**38**	*	*	**129**	**3.9%**	**2.9%**
Eureka	21	*	*	71	*	*
Leola	17	*	*	58	*	*
Meade	**407**	**6.4%**	**2.1%**	**1,198**	**4.9%**	**1.1%**
Faith	48	*	*	148	2.7%	2.2%
Sturgis	359	6.4%	2.2%	1,050	5.2%	1.2%
Miner	**47**	*	*	**131**	**3.8%**	**2.8%**
Howard	47	*	*	131	3.8%	2.8%
Minnehaha	**3,702**	**7.1%**	**0.7%**	**10,403**	**6.9%**	**0.4%**
Sioux Falls	3,702	7.1%	0.7%	10,403	6.9%	0.4%
Moody	**149**	**4.7%**	**2.9%**	**421**	**5.5%**	**1.9%**
Flandreau	149	4.7%	2.9%	421	5.5%	1.9%
Pennington	**3,910**	**7.5%**	**0.7%**	**11,361**	**7.0%**	**0.4%**
Ellsworth	481	5.2%	1.7%	1,542	5.9%	1.0%
Hill City	81	*	*	201	5.5%	2.7%
Rapid City	3,313	8.0%	0.8%	9,501	7.3%	0.5%
Wall	35	*	*	117	6.0%	3.7%
Perkins	**89**	*	*	**312**	**2.9%**	**1.6%**
Bison	28	*	*	95	*	*
Lemmon	61	*	*	217	3.2%	2.0%

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (3) Low Height-For-Age: less than 5th percentile based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older; excludes biologically implausible values for height, weight, and age.
 * Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 7 (Continued)

Pediatric Nutrition Surveillance System
Low Height-for-Age
Reporting Period 01/01/2004 to 12/31/2004

| County | 2004 Data Low Height-for-Age (3) | | | Three Year Data (2002-2004) Low Height-for-Age (3) | | |
Clinic	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Potter	**51**	*	*	**161**	**4.3%**	**2.7%**
Hoven	51	*	*	161	4.3%	2.7%
Roberts	**491**	**5.3%**	**1.7%**	**1,364**	**4.0%**	**0.9%**
Sisseton	491	5.3%	1.7%	1,364	4.0%	0.9%
Sanborn	**35**	*	*	**134**	**11.2%**	**4.8%**
Woonsocket	35	*	*	134	11.2%	4.8%
Shannon	**1,338**	**5.2%**	**1.0%**	**3,907**	**4.4%**	**0.6%**
Kyle	353	4.2%	1.8%	1,048	4.0%	1.0%
Manderson	105	10.5%	5.2%	293	6.1%	2.4%
Pine Ridge	766	5.4%	1.4%	2,172	4.6%	0.8%
Porcupine	114	2.6%	2.5%	394	3.0%	1.4%
Spink	**127**	**1.6%**	**1.8%**	**394**	**3.6%**	**1.6%**
Redfield	127	1.6%	1.8%	394	3.6%	1.6%
Stanley	**120**	**7.5%**	**4.1%**	**313**	**7.7%**	**2.6%**
Ft. Pierre	120	7.5%	4.1%	313	7.7%	2.6%
Sully	**11**	*	*	**46**	*	*
Onida	11	*	*	46	*	*
Tripp	**191**	**4.7%**	**2.6%**	**507**	**5.1%**	**1.6%**
Winner	191	4.7%	2.6%	507	5.1%	1.6%
Turner	**111**	**7.2%**	**4.2%**	**305**	**5.2%**	**2.1%**
Parker	48	*	*	121	7.4%	4.1%
Viborg	63	*	*	184	3.8%	2.4%
Union	**156**	**7.7%**	**3.7%**	**437**	**6.2%**	**2.0%**
Elk Point	156	7.7%	3.7%	437	6.2%	2.0%
Walworth	**158**	**4.4%**	**2.7%**	**521**	**4.4%**	**1.5%**
Mobridge	141	4.3%	2.9%	472	4.4%	1.6%
Selby	17	*	*	49	*	*
Yankton	**523**	**6.7%**	**1.9%**	**1,507**	**7.0%**	**1.1%**
Yankton	523	6.7%	1.9%	1,507	7.0%	1.1%
Ziebach	**37**	*	*	**132**	**3.0%**	**2.5%**
Dupree	37	*	*	132	3.0%	2.5%
Statewide PedNSS	**20,133**	**6.4%**	**0.3%**	**58,512**	**6.2%**	**0.2%**
National 2003		**6.2%**				

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (3) Low Height-For-Age: less than 5th percentile based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older; excludes biologically implausible values for height, weight, and age
* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 8

Pediatric Nutrition Surveillance System
Low Height-for-Age
Reporting Period 01/01/2004 to 12/31/2004

Region**	2004 Data Low Height-for-Age (3)			Three Year Data (2002-2004) Low Height-for-Age (3)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Aberdeen Area	1,032	4.8%	1.1%	2,962	5.3%	0.7%
East Central	848	6.7%	1.5%	2,471	6.8%	0.9%
Huron-Redfield	602	6.3%	1.7%	1,770	6.9%	1.0%
Mitchell-Chamberlain	845	7.3%	1.5%	2,464	7.1%	0.9%
Northern Black Hills	845	8.5%	1.6%	2,509	6.9%	0.9%
Northeast Area	1,456	6.1%	1.1%	4,313	5.5%	0.6%
North Central	300	3.0%	1.6%	975	3.6%	1.0%
Northwest Area	532	3.2%	1.3%	1,609	5.4%	1.0%
Oahe Area	708	6.2%	1.5%	2,073	5.8%	0.9%
Pickstown Area	929	5.0%	1.2%	2,743	5.3%	0.7%
Pine Ridge Area	1,789	5.3%	0.9%	5,183	4.5%	0.5%
Rapid City Area	3,910	7.5%	0.7%	11,361	7.0%	0.4%
Southeast Area	967	7.1%	1.4%	2,833	6.5%	0.8%
Sioux Falls Area	3,702	7.1%	0.7%	10,403	6.9%	0.4%
Sioux Empire Area	586	6.1%	1.7%	1,739	6.9%	1.0%
South Central	757	3.7%	1.2%	2,206	4.4%	0.7%
Southern Black Hills	325	5.5%	2.1%	898	6.9%	1.4%
Statewide PedNSS	**20,133**	**6.4%**	**0.3%**	**58,512**	**6.2%**	**0.2%**
National 2003		**6.2%**				

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.

(3) Low Height-For-Age: less than 5th percentile based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older; excludes biologically implausible values for height, weight, and age

** Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

<u>Underweight/Overweight (Children less than 5 years of age)</u>

Children, up to age 2 years and infants, falling below the 5th percentile in weight for height, compared to children of the same sex and age in the CDC reference population, are considered to be underweight. Children 2 years and older whose BMI-for-age falls below the 5th percentile are considered to be underweight. The conditions contributing to the higher percentage of low weight-for-height are inadequate dietary intake, failure to thrive, chronic and infectious diseases, and other normal variations within a population.

The percent prevalence of underweight infants and children was 3.1 percent in the South Dakota PedNSS data for 2004, down from 3.5 percent in 2003. The South Dakota PedNSS population had a low weight-for-height rate of 3.4 percent over the three-year period 2002-2004. The United States PedNSS population had a low weight-for-height rate of 5.2 percent in calendar year 2003.

Figure 8

South Dakota PedNSS
Prevalence of Under Weight*
Among Children Aged <5 Years, by Race

* < 5th percentile weight-for-length or BMI-for-age, CDC Growth Charts, 2000.
   5% of children are expected to fall below the 5th percentile.
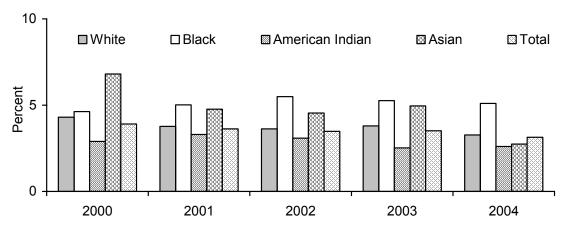
The percent prevalence of underweight children by race in South Dakota's 2004 PedNSS population was:
- 3.3 percent for whites
- 5.1 percent for blacks
- 2.6 for American Indians and Alaskan Natives
- 2.7 percent for Asian or Pacific Islanders

The age breakdown for this population was:
- less than one year, 3.8 percent
- one year, 2.9 percent
- 2-4 years of age, 2.6 percent

Figure 9

South Dakota PedNSS
Trends in Prevalence of Underweight*
by Race

* < 5th percentile weight-for-length or BMI-for-age, CDC Growth Charts, 2000.
   5% of children are expected to fall below the 5th percentile.

Children 2 years and older that have a BMI-for-age at or above the 95th percentile are considered to be overweight.
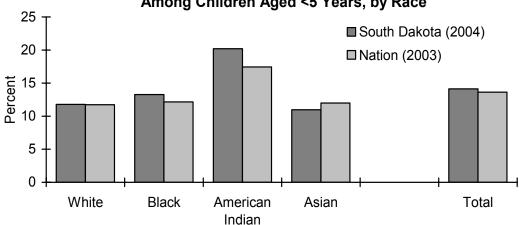
The percent prevalence of overweight children by race in South Dakota's 2004 PedNSS population was:
- 11.8 percent for whites
- 13.3 percent for blacks
- 20.2 for American Indians and Alaskan Natives
- 11.0 percent for Asian or Pacific Islanders

The age breakdown for this population was:
- less than one year, 11.7 percent
- one year, 20.0 percent
- 2-4 years of age, 13.9 percent

Figure 10

South Dakota PedNSS
Prevalence of Overweight*
Among Children Aged <5 Years, by Race
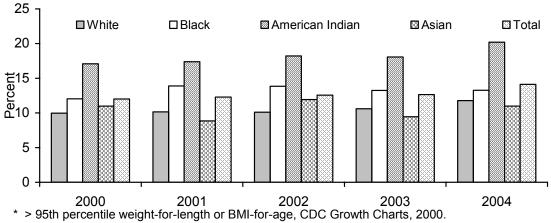
* > 95th percentile weight-for-length or BMI-for-age, CDC Growth Charts, 2000.
  5% of children are expected to fall above the 95th percentile.

Figure 11

South Dakota PedNSS
Trends in Prevalence of Overweight*
Among Children Aged <5 Years, by Race

* > 95th percentile weight-for-length or BMI-for-age, CDC Growth Charts, 2000.
  5% of children are expected to fall above the 95th percentile.

30

Table 9

Pediatric Nutrition Surveillance System
Low Weight-for-Height
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Low Weight-for-Height (4)			Three Year Data (2002-2004) Low Weight-for-Height (4)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Aurora	**65**	*	*	**212**	**1.4%**	**1.3%**
Plankinton	65	*	*	212	1.4%	1.3%
Beadle	**475**	**5.7%**	**1.8%**	**1,376**	**4.7%**	**1.0%**
Huron	475	5.7%	1.8%	1,376	4.7%	1.0%
Bennett	**217**	**2.3%**	**1.7%**	**600**	**2.2%**	**1.0%**
Martin	217	2.3%	1.7%	600	2.2%	1.0%
Bon Homme	**150**	**4.7%**	**2.9%**	**456**	**4.2%**	**1.6%**
Tyndall	150	4.7%	2.9%	456	4.2%	1.6%
Brookings	**503**	**2.6%**	**1.2%**	**1,442**	**2.6%**	**0.7%**
Brookings	503	2.6%	1.2%	1,442	2.6%	0.7%
Brown	**805**	**2.9%**	**1.0%**	**2,293**	**3.8%**	**0.7%**
Aberdeen	805	2.9%	1.0%	2,293	3.8%	0.7%
Brule	**110**	**1.8%**	**2.1%**	**352**	**2.3%**	**1.3%**
Chamberlain	93	*	*	290	2.4%	1.5%
Kimball	17	*	*	62	*	*
Buffalo	**230**	**2.2%**	**1.6%**	**677**	**2.1%**	**0.9%**
Ft. Thompson	230	2.2%	1.6%	677	2.1%	0.9%
Butte	**337**	**5.3%**	**2.1%**	**944**	**5.4%**	**1.2%**
Belle Fourche	288	4.2%	2.0%	796	3.6%	1.1%
Newell	49	*	*	148	14.9%	5.2%
Charles Mix	**511**	**1.8%**	**1.0%**	**1,472**	**1.9%**	**0.6%**
Lake Andes	151	3.3%	2.4%	416	2.6%	1.3%
Platte	54	*	*	149	1.3%	1.5%
Wagner	306	1.0%	0.9%	907	1.7%	0.7%
Clark	**81**	*	*	**228**	**3.1%**	**1.9%**
Clark	81	*	*	228	3.1%	1.9%
Clay	**288**	**4.5%**	**2.1%**	**889**	**4.5%**	**1.2%**
Vermillion	288	4.5%	2.1%	889	4.5%	1.2%
Codington	**670**	**2.5%**	**1.0%**	**2,040**	**3.1%**	**0.6%**
Watertown	670	2.5%	1.0%	2,040	3.1%	0.6%
Corson	**10**	*	*	**38**	*	*
McLaughlin	10	*	*	38	*	*
Custer	**115**	**1.7%**	**2.0%**	**321**	**1.9%**	**1.3%**
Custer	115	1.7%	2.0%	321	1.9%	1.3%
Davison	**503**	**1.4%**	**0.9%**	**1,407**	**3.1%**	**0.8%**
Mitchell	503	1.4%	0.9%	1,407	3.1%	0.8%
Day	**164**	**0.6%**	**1.0%**	**501**	**1.6%**	**0.9%**
Webster	164	0.6%	1.0%	501	1.6%	0.9%
Deuel	**58**	*	*	**154**	**1.9%**	**1.8%**
Clear Lake	58	*	*	154	1.9%	1.8%

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
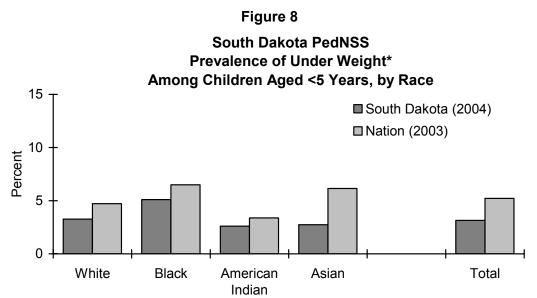 (4) Low Weight-For-Height: less than 5th percentile based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and height-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.
* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 9 (Continued)

Pediatric Nutrition Surveillance System
Low Weight-for-Height
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Low Weight-for-Height (4)			Three Year Data (2002-2004) Low Weight-for-Height (4)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Dewey	**55**	*	*	**179**	**4.5%**	**2.6%**
Isabel	16	*	*	53	*	*
Timber Lake	39	*	*	126	4.8%	3.2%
Douglas	**54**	*	*	**176**	**5.7%**	**3.0%**
Armour	54	*	*	176	5.7%	3.0%
Edmunds	**55**	*	*	**165**	**1.8%**	**1.7%**
Bowdle	41	*	*	119	2.5%	2.4%
Ipswich	14	*	*	46	*	*
Fall River	**210**	**4.8%**	**2.5%**	**577**	**4.0%**	**1.4%**
Hot Springs	210	4.8%	2.5%	577	4.0%	1.4%
Faulk	**39**	*	*	**122**	**4.1%**	**3.0%**
Faulkton	39	*	*	122	4.1%	3.0%
Grant	**156**	**8.3%**	**3.8%**	**527**	**5.5%**	**1.7%**
Milbank	156	8.3%	3.8%	527	5.5%	1.7%
Gregory	**105**	**1.0%**	**1.6%**	**313**	**1.9%**	**1.3%**
Bonesteel	25	*	*	79	*	*
Burke	80	*	*	234	2.1%	1.6%
Haakon	**36**	*	*	**140**	**1.4%**	**1.6%**
Philip	36	*	*	140	1.4%	1.6%
Hamlin	**151**	**0.0%**	*	**461**	**0.9%**	**0.7%**
Hayti	151	0.0%	*	461	0.9%	0.7%
Hand	**65**	*	*	**226**	**4.4%**	**2.3%**
Miller	65	*	*	226	4.4%	2.3%
Hanson	**89**	*	*	**255**	**5.1%**	**2.3%**
Alexandria	89	*	*	255	5.1%	2.3%
Harding	**14**	*	*	**42**	*	*
Buffalo	14	*	*	42	*	*
Hughes	**417**	**2.4%**	**1.2%**	**1,193**	**2.1%**	**0.7%**
Pierre	417	2.4%	1.2%	1,193	2.1%	0.7%
Hutchinson	**109**	**0.9%**	**1.5%**	**326**	**3.7%**	**1.8%**
Freeman	64	*	*	162	1.9%	1.8%
Parkston	45	*	*	164	5.5%	3.0%
Hyde	**44**	*	*	**134**	**2.2%**	**2.1%**
Highmore	44	*	*	134	2.2%	2.1%
Jackson	**234**	**1.7%**	**1.4%**	**676**	**1.6%**	**0.8%**
Kadoka	54	*	*	158	1.9%	1.8%
Wanblee	180	1.7%	1.6%	518	1.5%	0.9%
Jerauld	**43**	*	*	**104**	**1.9%**	**2.2%**
Wessington Springs	43	*	*	104	1.9%	2.2%
Jones	**44**	*	*	**148**	**4.7%**	**2.9%**
Murdo	44	*	*	148	4.7%	2.9%

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (4) Low Weight-For-Height: less than 5th percentile based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and height-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.
*   Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 9 (Continued)

Pediatric Nutrition Surveillance System
Low Weight-for-Height
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Low Weight-for-Height (4)			Three Year Data (2002-2004) Low Weight-for-Height (4)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Kingsbury	**45**	*	*	**147**	**3.4%**	**2.5%**
De Smet	45	*	*	147	3.4%	2.5%
Lake	**195**	**0.5%**	**0.8%**	**603**	**2.2%**	**1.0%**
Madison	195	0.5%	0.8%	603	2.2%	1.0%
Lawrence	**438**	**6.4%**	**2.0%**	**1,311**	**5.7%**	**1.1%**
Deadwood	128	6.3%	3.6%	405	5.4%	1.9%
Spearfish	310	6.5%	2.4%	906	5.8%	1.3%
Lincoln	**111**	**1.8%**	**2.1%**	**361**	**2.5%**	**1.4%**
Canton	111	1.8%	2.1%	361	2.5%	1.4%
Lyman	**256**	**2.3%**	**1.6%**	**734**	**2.0%**	**0.9%**
Kennebec	40	*	*	127	3.1%	2.6%
Lower Brule	216	2.3%	1.7%	607	1.8%	0.9%
Marshall	**63**	*	*	**168**	**4.2%**	**2.6%**
Britton	63	*	*	168	4.2%	2.6%
McCook	**122**	**0.8%**	**1.3%**	**339**	**1.2%**	**1.0%**
Salem	122	0.8%	1.3%	339	1.2%	1.0%
McPherson	**38**	*	*	**129**	**5.4%**	**3.4%**
Eureka	21	*	*	71	*	*
Leola	17	*	*	58	*	*
Meade	**407**	**3.4%**	**1.5%**	**1,198**	**2.8%**	**0.8%**
Faith	48	*	*	148	2.0%	1.9%
Sturgis	359	3.6%	1.6%	1,050	3.0%	0.9%
Miner	**47**	*	*	**131**	**6.9%**	**3.8%**
Howard	47	*	*	131	6.9%	3.8%
Minnehaha	**3,702**	**3.0%**	**0.5%**	**10,403**	**3.3%**	**0.3%**
Sioux Falls	3,702	3.0%	0.5%	10,403	3.3%	0.3%
Moody	**149**	**3.4%**	**2.5%**	**421**	**2.1%**	**1.2%**
Flandreau	149	3.4%	2.5%	421	2.1%	1.2%
Pennington	**3,910**	**3.0%**	**0.5%**	**11,361**	**3.5%**	**0.3%**
Ellsworth	481	4.2%	1.5%	1,542	4.6%	0.9%
Hill City	81	*	*	201	4.5%	2.5%
Rapid City	3,313	2.7%	0.5%	9,501	3.3%	0.3%
Wall	35	*	*	117	7.7%	4.2%
Perkins	**89**	*	*	**312**	**2.6%**	**1.5%**
Bison	28	*	*	95	*	*
Lemmon	61	*	*	217	1.8%	1.5%

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (4) Low Weight-For-Height: less than 5th percentile based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and height-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.
* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 9 (Continued)

Pediatric Nutrition Surveillance System
Low Weight-for-Height
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Low Weight-for-Height (4)			Three Year Data (2002-2004) Low Weight-for-Height (4)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Potter	**51**	*	*	**161**	**0.6%**	**1.0%**
Hoven	51	*	*	161	0.6%	1.0%
Roberts	**491**	**2.6%**	**1.2%**	**1,364**	**2.8%**	**0.7%**
Sisseton	491	2.6%	1.2%	1,364	2.8%	0.7%
Sanborn	**35**	*	*	**134**	**3.0%**	**2.5%**
Woonsocket	35	*	*	134	3.0%	2.5%
Shannon	**1,338**	**4.1%**	**0.9%**	**3,907**	**4.6%**	**0.6%**
Kyle	353	1.4%	1.0%	1,048	1.7%	0.7%
Manderson	105	5.7%	3.8%	293	5.8%	2.3%
Pine Ridge	766	4.8%	1.3%	2,172	5.5%	0.8%
Porcupine	114	6.1%	3.8%	394	6.1%	2.0%
Spink	**127**	**3.1%**	**2.6%**	**394**	**3.6%**	**1.6%**
Redfield	127	3.1%	2.6%	394	3.6%	1.6%
Stanley	**120**	**4.2%**	**3.1%**	**313**	**3.2%**	**1.7%**
Ft. Pierre	120	4.2%	3.1%	313	3.2%	1.7%
Sully	**11**	*	*	**46**	*	*
Onida	11	*	*	46	*	*
Tripp	**191**	**6.3%**	**3.0%**	**507**	**4.5%**	**1.5%**
Winner	191	6.3%	3.0%	507	4.5%	1.5%
Turner	**111**	**3.6%**	**3.0%**	**305**	**3.0%**	**1.6%**
Parker	48	*	*	121	2.5%	2.4%
Viborg	63	*	*	184	3.3%	2.2%
Union	**156**	**3.8%**	**2.6%**	**437**	**4.1%**	**1.6%**
Elk Point	156	3.8%	2.6%	437	4.1%	1.6%
Walworth	**158**	**5.1%**	**3.0%**	**521**	**3.3%**	**1.3%**
Mobridge	141	5.7%	3.3%	472	3.6%	1.4%
Selby	17	*	*	49	*	*
Yankton	**523**	**2.7%**	**1.2%**	**1,507**	**2.9%**	**0.7%**
Yankton	523	2.7%	1.2%	1,507	2.9%	0.7%
Ziebach	**37**	*	*	**132**	**2.3%**	**2.2%**
Dupree	37	*	*	132	2.3%	2.2%
Statewide PedNSS	**20,133**	**3.1%**	**0.2%**	**58,512**	**3.4%**	**0.1%**
National 2003		**5.2%**				

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (4) Low Weight-For-Height: less than 5th percentile based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and height-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.
* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 10 (Continued)

Pediatric Nutrition Surveillance System
Low Weight-for-Height
Reporting Period 01/01/2004 to 12/31/2004

Region**	2004 Data Low Weight-for-Height (4)			Three Year Data (2003-2004) Low Weight-for-Height (4)		
	Total Records	Percent	Confidence 1.1%	Total Records	Percent	Confidence Interval
Aberdeen Area	1,032	2.5%	0.8%	2,962	3.5%	0.6%
East Central	848	2.1%	0.8%	2,471	2.4%	0.5%
Huron-Redfield	602	5.1%	1.5%	1,770	4.5%	0.8%
Mitchell-Chamberlain	845	1.7%	0.7%	2,464	3.0%	0.6%
Northern Black Hills	845	5.0%	1.3%	2,509	4.3%	0.7%
Northeast Area	1,456	3.2%	0.8%	4,313	3.2%	0.4%
North Central	300	5.0%	2.1%	975	3.4%	1.0%
Northwest Area	532	4.5%	1.5%	1,609	4.4%	0.9%
Oahe Area	708	2.8%	1.0%	2,073	2.4%	0.6%
Pickstown Area	929	2.4%	0.8%	2,743	2.7%	0.5%
Pine Ridge Area	1,789	3.6%	0.7%	5,183	3.9%	0.5%
Rapid City Area	3,910	3.0%	0.5%	11,361	3.5%	0.3%
Southeast Area	967	3.4%	1.0%	2,833	3.6%	0.6%
Sioux Falls Area	3,702	3.0%	0.5%	10,403	3.3%	0.3%
Sioux Empire Area	586	1.7%	0.9%	1,739	2.5%	0.6%
South Central	757	3.4%	1.1%	2,206	2.8%	0.6%
Southern Black Hills	325	3.7%	1.8%	898	3.2%	1.0%
Statewide PedNSS	**20,133**	**3.1%**	**0.2%**	**58,512**	**3.4%**	**0.1%**
National 2003		**5.2%**				

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (4) Low Weight-For-Height: less than 5th percentile based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and height-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.
** Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

Table 11

Pediatric Nutrition Surveillance System
High Weight-for-Height
Reporting Period 01/01/2004 to 12/31/2004

County	2004 Data High Weight-for-Height (5)			Three Year Data (2002-2004) High Weight-for-Height (5)		
Clinic	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Aurora	**65**	*	*	**212**	**14.2%**	**4.3%**
Plankinton	65	*	*	212	14.2%	4.3%
Beadle	**475**	**11.8%**	**2.6%**	**1,376**	**11.1%**	**1.5%**
Huron	475	11.8%	2.6%	1,376	11.1%	1.5%
Bennett	**217**	**25.3%**	**5.6%**	**600**	**24.0%**	**3.3%**
Martin	217	25.3%	5.6%	600	24.0%	3.3%
Bon Homme	**150**	**6.7%**	**3.5%**	**456**	**11.4%**	**2.6%**
Tyndall	150	6.7%	3.5%	456	11.4%	2.6%
Brookings	**503**	**12.1%**	**2.6%**	**1,442**	**10.4%**	**1.4%**
Brookings	503	12.1%	2.6%	1,442	10.4%	1.4%
Brown	**805**	**11.7%**	**2.0%**	**2,293**	**11.4%**	**1.2%**
Aberdeen	805	11.7%	2.0%	2,293	11.4%	1.2%
Brule	**110**	**10.9%**	**5.2%**	**352**	**13.4%**	**3.2%**
Chamberlain	93	*	*	290	13.8%	3.6%
Kimball	17	*	*	62	*	*
Buffalo	**230**	**22.6%**	**5.2%**	**677**	**22.7%**	**3.0%**
Ft. Thompson	230	22.6%	5.2%	677	22.7%	3.0%
Butte	**337**	**13.4%**	**3.3%**	**944**	**12.5%**	**1.9%**
Belle Fourche	288	14.2%	3.7%	796	13.4%	2.1%
Newell	49	*	*	148	7.4%	3.7%
Charles Mix	**511**	**18.8%**	**3.2%**	**1,472**	**17.1%**	**1.8%**
Lake Andes	151	17.9%	5.7%	416	16.8%	3.3%
Platte	54	*	*	149	9.4%	4.1%
Wagner	306	19.9%	4.2%	907	18.4%	2.3%
Clark	**81**	*	*	**228**	**11.4%**	**3.7%**
Clark	81	*	*	228	11.4%	3.7%
Clay	**288**	**9.0%**	**2.9%**	**889**	**9.7%**	**1.7%**
Vermillion	288	9.0%	2.9%	889	9.7%	1.7%
Codington	**670**	**13.3%**	**2.3%**	**2,040**	**13.6%**	**1.3%**
Watertown	670	13.3%	2.3%	2,040	13.6%	1.3%
Corson	**10**	*	*	**38**	*	*
McLaughlin	10	*	*	38	*	*
Custer	**115**	**15.7%**	**6.1%**	**321**	**11.5%**	**3.1%**
Custer	115	15.7%	6.1%	321	11.5%	3.1%
Davison	**503**	**11.3%**	**2.5%**	**1,407**	**11.2%**	**1.5%**
Mitchell	503	11.3%	2.5%	1,407	11.2%	1.5%
Day	**164**	**12.2%**	**4.5%**	**501**	**12.2%**	**2.6%**
Webster	164	12.2%	4.5%	501	12.2%	2.6%
Deuel	**58**	*	*	**154**	**10.4%**	**4.3%**
Clear Lake	58	*	*	154	10.4%	4.3%

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (5) High Weight-For-Height: greater than or equal to 95th percentile based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.
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Table 11 (Continued)

Pediatric Nutrition Surveillance System
High Weight-for-Height
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data High Weight-for-Height (5)			Three Year Data (2002-2004) High Weight-for-Height (5)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Dewey	**55**	*	*	**179**	**14.0%**	**4.6%**
Isabel	16	*	*	53	*	*
Timber Lake	39	*	*	126	13.5%	5.4%
Douglas	**54**	*	*	**176**	**11.9%**	**4.3%**
Armour	54	*	*	176	11.9%	4.3%
Edmunds	**55**	*	*	**165**	**10.3%**	**4.1%**
Bowdle	41	*	*	119	10.1%	4.8%
Ipswich	14	*	*	46	*	*
Fall River	**210**	**6.7%**	**2.9%**	**577**	**10.2%**	**2.2%**
Hot Springs	210	6.7%	2.9%	577	10.2%	2.2%
Faulk	**39**	*	*	**122**	**13.1%**	**5.4%**
Faulkton	39	*	*	122	13.1%	5.4%
Grant	**156**	**8.3%**	**3.8%**	**527**	**12.1%**	**2.5%**
Milbank	156	8.3%	3.8%	527	12.1%	2.5%
Gregory	**105**	**15.2%**	**6.3%**	**313**	**10.2%**	**3.0%**
Bonesteel	25	*	*	79	*	*
Burke	80	*	*	234	7.3%	2.9%
Haakon	**36**	*	*	**140**	**13.6%**	**5.1%**
Philip	36	*	*	140	13.6%	5.1%
Hamlin	**151**	**11.3%**	**4.5%**	**461**	**9.5%**	**2.4%**
Hayti	151	11.3%	4.5%	461	9.5%	2.4%
Hand	**65**	*	*	**226**	**6.6%**	**2.8%**
Miller	65	*	*	226	6.6%	2.8%
Hanson	**89**	*	*	**255**	**8.2%**	**2.9%**
Alexandria	89	*	*	255	8.2%	2.9%
Harding	**14**	*	*	**42**	*	*
Buffalo	14	*	*	42	*	*
Hughes	**417**	**21.8%**	**3.8%**	**1,193**	**18.7%**	**2.1%**
Pierre	417	21.8%	3.8%	1,193	18.7%	2.1%
Hutchinson	**109**	**9.2%**	**4.8%**	**326**	**8.6%**	**2.7%**
Freeman	64	*	*	162	11.7%	4.4%
Parkston	45	*	*	164	5.5%	3.0%
Hyde	**44**	*	*	**134**	**20.1%**	**6.4%**
Highmore	44	*	*	134	20.1%	6.4%
Jackson	**234**	**23.1%**	**5.2%**	**676**	**24.3%**	**3.1%**
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Wessington Springs	43	*	*	104	14.4%	6.1%
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Table 11 (Continued)

Pediatric Nutrition Surveillance System
High Weight-for-Height
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data High Weight-for-Height (5)			Three Year Data (2002-2004) High Weight-for-Height (5)		
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De Smet	45	*	*	147	10.2%	4.3%
Lake	**195**	**12.3%**	**4.1%**	**603**	**10.4%**	**2.2%**
Madison	195	12.3%	4.1%	603	10.4%	2.2%
Lawrence	**438**	**12.6%**	**2.8%**	**1,311**	**9.8%**	**1.4%**
Deadwood	128	11.7%	5.0%	405	8.4%	2.4%
Spearfish	310	12.9%	3.4%	906	10.5%	1.8%
Lincoln	**111**	**19.8%**	**6.9%**	**361**	**15.5%**	**3.4%**
Canton	111	19.8%	6.9%	361	15.5%	3.4%
Lyman	**256**	**14.5%**	**3.9%**	**734**	**16.9%**	**2.5%**
Kennebec	40	*	*	127	15.7%	5.8%
Lower Brule	216	13.0%	4.0%	607	17.1%	2.8%
Marshall	**63**	*	*	**168**	**14.9%**	**4.9%**
Britton	63	*	*	168	14.9%	4.9%
McCook	**122**	**11.5%**	**5.1%**	**339**	**12.4%**	**3.1%**
Salem	122	11.5%	5.1%	339	12.4%	3.1%
McPherson	**38**	*	*	**129**	**10.9%**	**4.8%**
Eureka	21	*	*	71	*	*
Leola	17	*	*	58	*	*
Meade	**407**	**12.5%**	**2.9%**	**1,198**	**10.3%**	**1.5%**
Faith	48	*	*	148	16.2%	5.4%
Sturgis	359	11.4%	2.9%	1,050	9.4%	1.6%
Miner	**47**	*	*	**131**	**6.1%**	**3.5%**
Howard	47	*	*	131	6.1%	3.5%
Minnehaha	**3,702**	**14.7%**	**1.0%**	**10,403**	**13.5%**	**0.6%**
Sioux Falls	3,702	14.7%	1.0%	10,403	13.5%	0.6%
Moody	**149**	**17.4%**	**5.6%**	**421**	**16.6%**	**3.3%**
Flandreau	149	17.4%	5.6%	421	16.6%	3.3%
Pennington	**3,910**	**12.6%**	**0.9%**	**11,361**	**10.8%**	**0.5%**
Ellsworth	481	6.0%	1.8%	1,542	5.4%	1.0%
Hill City	81	*	*	201	8.5%	3.4%
Rapid City	3,313	13.6%	1.1%	9,501	11.7%	0.6%
Wall	35	*	*	117	12.8%	5.4%
Perkins	**89**	*	*	**312**	**9.3%**	**2.8%**
Bison	28	*	*	95	*	*
Lemmon	61	*	*	217	10.6%	3.6%

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (5) High Weight-For-Height: greater than or equal to 95th percentile based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.
* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 11 (Continued)

Pediatric Nutrition Surveillance System
High Weight-for-Height
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data High Weight-for-Height (5)			Three Year Data (2002-2004) High Weight-for-Height (5)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Potter	**51**	*	*	**161**	**14.3%**	**4.9%**
Hoven	51	*	*	161	14.3%	4.9%
Roberts	**491**	**18.3%**	**3.2%**	**1,364**	**15.5%**	**1.8%**
Sisseton	491	18.3%	3.2%	1,364	15.5%	1.8%
Sanborn	**35**	*	*	**134**	**14.9%**	**5.5%**
Woonsocket	35	*	*	134	14.9%	5.5%
Shannon	**1,338**	**17.6%**	**1.9%**	**3,907**	**16.4%**	**1.1%**
Kyle	353	22.7%	4.2%	1,048	23.3%	2.5%
Manderson	105	17.1%	6.6%	293	13.3%	3.5%
Pine Ridge	766	16.1%	2.4%	2,172	13.8%	1.3%
Porcupine	114	12.3%	5.4%	394	14.5%	3.2%
Spink	**127**	**16.5%**	**5.9%**	**394**	**12.9%**	**3.0%**
Redfield	127	16.5%	5.9%	394	12.9%	3.0%
Stanley	**120**	**13.3%**	**5.5%**	**313**	**16.3%**	**3.8%**
Ft. Pierre	120	13.3%	5.5%	313	16.3%	3.8%
Sully	**11**	*	*	**46**	*	*
Onida	11	*	*	46	*	*
Tripp	**191**	**14.1%**	**4.5%**	**507**	**17.0%**	**3.0%**
Winner	191	14.1%	4.5%	507	17.0%	3.0%
Turner	**111**	**9.0%**	**4.7%**	**305**	**10.5%**	**3.1%**
Parker	48	*	*	121	8.3%	4.3%
Viborg	63	*	*	184	12.0%	4.2%
Union	**156**	**16.7%**	**5.4%**	**437**	**14.6%**	**3.0%**
Elk Point	156	16.7%	5.4%	437	14.6%	3.0%
Walworth	**158**	**15.2%**	**5.1%**	**521**	**13.6%**	**2.7%**
Mobridge	141	17.0%	5.7%	472	14.2%	2.9%
Selby	17	*	*	49	*	*
Yankton	**523**	**17.2%**	**3.0%**	**1,507**	**16.3%**	**1.7%**
Yankton	523	17.2%	3.0%	1,507	16.3%	1.7%
Ziebach	**37**	*	*	**132**	**12.9%**	**5.1%**
Dupree	37	*	*	132	12.9%	5.1%
Statewide PedNSS	**20,133**	**14.1%**	**0.4%**	**58,512**	**13.1%**	**0.2%**
National 2003		**13.6%**				

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.

(5) High Weight-For-Height: greater than or equal to 95th percentile based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.

* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 12 (Continued)

Pediatric Nutrition Surveillance System
High Weight-for-Height
Reporting Period 01/01/2004 to 12/31/2004

Region**	2004 Data High Weight-for-Height (5)			Three Year Data (2002-2004) High Weight-for-Height (5)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Aberdeen Area	1,032	12.2%	1.8%	2,962	11.7%	1.0%
East Central	848	13.0%	2.0%	2,471	11.3%	1.1%
Huron-Redfield	602	12.8%	2.4%	1,770	11.5%	1.3%
Mitchell-Chamberlain	845	11.6%	1.9%	2,464	11.8%	1.1%
Northern Black Hills	845	12.5%	2.0%	2,509	10.0%	1.0%
Northeast Area	1,456	14.0%	1.6%	4,313	13.8%	0.9%
North Central	300	12.7%	3.4%	975	12.7%	1.9%
Northwest Area	532	12.2%	2.5%	1,609	12.1%	1.4%
Oahe Area	708	17.7%	2.6%	2,073	16.7%	1.5%
Pickstown Area	929	15.1%	2.1%	2,743	14.0%	1.2%
Pine Ridge Area	1,789	19.2%	1.7%	5,183	18.3%	1.0%
Rapid City Area	3,910	12.6%	0.9%	11,361	10.8%	0.5%
Southeast Area	967	14.7%	2.0%	2,833	13.9%	1.2%
Sioux Falls Area	3,702	14.7%	1.0%	10,403	13.5%	0.6%
Sioux Empire Area	586	12.5%	2.4%	1,739	11.6%	1.3%
South Central	757	16.5%	2.4%	2,206	17.9%	1.5%
Southern Black Hills	325	9.8%	2.9%	898	10.7%	1.8%
Statewide PedNSS	**20,133**	**14.1%**	**0.4%**	**58,512**	**13.1%**	**0.2%**
National 2003		**13.6%**				

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (5) High Weight-For-Height: greater than or equal to 95th percentile based on 2000 CDC growth chart percentiles for weight-
    for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older; excludes records with
    biologically implausible values for height, age, and weight.
** Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

Overweight and At Risk of Overweight (2 to 5 years of age)

Children 2 years and older that have a BMI-for-age at or above the 95th percentile in the CDC's reference population of children matched for age, height, and sex are defined as overweight. Children 2 years and older whose BMI-for-age is between the 85th percentile but below the 95th percentile are defined as "At risk of overweight".

Obesity is defined as an excessive deposit of adipose tissue. A measure of weight-for-height above the 95th percentile does not measure fat tissue; it indicates but does not define obesity.

Obesity is a risk factor for the following conditions in adulthood: cardiovascular disease, hypertension, diabetes, degenerative joint disease, and psychological problems. Studies show that 26 percent of overweight children (BMI above 95th percentile) 1-3 years will be obese at age 25 and 52 percent of overweight children 3 to 6 years will be obese at age 25. Whitaker et al. NEJM:1997;337:869-873.

Figure 12

South Dakota PedNSS
Prevalence of Overweight and at Risk of Overweight*
Among Children Aged 2 to <5 Years, by Race

* Overweight: > 95th percentile weight-for-length or BMI-for-age; at risk of overweight: > 85th-<95th percentile
   weight-for-length or BMI-for-age, CDC Growth Charts, 2000. 15% of children are expected to fall above the
   85th percentile (5% above the 95th percentile and 10% between the 85th and 95th percentiles).

Healthy People 2010 Goal: There are no Healthy People 2010 goals for overweight preschool children. The Healthy People 2010 target for the reduction of overweight or obese children age 6 to 11 is 5 percent.

The 2004 rate of overweight, ages 2 to 5 years, in South Dakota's PedNSS records was 13.9 percent, up from 13.6 percent in 2003. The South Dakota PedNSS population rate for overweight children was 13.4 percent for the three-year period 2002-2004. The United States PedNSS population rate for overweight children was 14.7 percent in calendar year 2003.

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The percent prevalence of overweight (greater than or equal to 95th percentile) and at risk of overweight (85th to 95th percentile) children by race/ethnicity and age are as follows:

Race/Ethnicity	At Risk of Overweight (85th to 95th percentile)	Overweight (≥95th percentile)
White	16.6	12.0
Black	15.2	13.2
American Indian/Alaska Native	21.5	18.3
Age		
2 years	18.3	13.3
3 years	17.9	14.9
4 years	18.0	13.4

Table 13

**Pediatric Nutrition Surveillance System
At Risk of Overweight - Ages 2 to 5 Years
Reporting Period 01/01/2004 to 12/31/2004**

County Clinic	2004 Data At Risk of Overweight (6)			Three Year Data (2002-2004) At Risk of Overweight (6)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Aurora	**35**	*	*	**106**	**19.8%**	**7.1%**
Plankinton	35	*	*	106	19.8%	7.1%
Beadle	**212**	**17.9%**	**4.8%**	**591**	**17.3%**	**2.8%**
Huron	212	17.9%	4.8%	591	17.3%	2.8%
Bennett	**99**	*	*	**270**	**22.2%**	**4.7%**
Martin	99	*	*	270	22.2%	4.7%
Bon Homme	**73**	*	*	**224**	**17.4%**	**4.6%**
Tyndall	73	*	*	224	17.4%	4.6%
Brookings	**228**	**14.5%**	**4.1%**	**631**	**11.7%**	**2.2%**
Brookings	228	14.5%	4.1%	631	11.7%	2.2%
Brown	**328**	**15.9%**	**3.6%**	**960**	**16.3%**	**2.1%**
Aberdeen	328	15.9%	3.6%	960	16.3%	2.1%
Brule	**53**	*	*	**176**	**22.2%**	**5.8%**
Chamberlain	44	*	*	142	23.2%	6.6%
Kimball	9	*	*	34	*	*
Buffalo	**92**	*	*	**307**	**22.8%**	**4.5%**
Ft. Thompson	92	*	*	307	22.8%	4.5%
Butte	**155**	**16.8%**	**5.4%**	**447**	**15.0%**	**3.0%**
Belle Fourche	130	17.7%	6.1%	371	15.6%	3.4%
Newell	25	*	*	76	12.0%	6.5%
Charles Mix	**242**	**21.9%**	**4.9%**	**720**	**21.1%**	**2.8%**
Lake Andes	79	*	*	208	17.8%	4.8%
Platte	27	*	*	80	*	*
Wagner	136	24.3%	7.0%	432	22.5%	3.8%
Clark	**36**	*	*	**112**	**24.1%**	**7.6%**
Clark	36	*	*	112	24.1%	7.6%
Clay	**134**	**20.1%**	**6.4%**	**418**	**18.4%**	**3.5%**
Vermillion	134	20.1%	6.4%	418	18.4%	3.5%
Codington	**281**	**22.1%**	**4.6%**	**903**	**18.4%**	**2.3%**
Watertown	281	22.1%	4.6%	903	18.4%	2.3%
Corson	**6**	*	*	**22**	*	*
McLaughlin	6	*	*	22	*	*
Custer	**52**	*	*	**156**	**23.1%**	**6.3%**
Custer	52	*	*	156	23.1%	6.3%
Davison	**193**	**21.2%**	**5.5%**	**550**	**21.1%**	**3.2%**
Mitchell	193	21.2%	5.5%	550	21.1%	3.2%
Day	**84**	*	*	**255**	**10.6%**	**3.4%**
Webster	84	*	*	255	10.6%	3.4%
Deuel	**29**	*	*	**79**	*	*
Clear Lake	29	*	*	79	*	*

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (6) At Risk of Overweight: 85th to 95th percentile based on BMI-for-age for children 2 years of age and older; excludes
     records with biologically implausible values for height, age, and weight.
 *   Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of
     reliability or precision.

Table 13 (Continued)

Pediatric Nutrition Surveillance System
At Risk of Overweight - Ages 2 to 5 Years
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data At Risk of Overweight (6)			Three Year Data (2002-2004) At Risk of Overweight (6)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Dewey	**21**	*	*	**87**	*	*
Isabel	4	*	*	23	*	*
Timber Lake	17	*	*	64	*	*
Douglas	**28**	*	*	**100**	**17.0%**	**6.8%**
Armour	28	*	*	100	17.0%	6.8%
Edmunds	**30**	*	*	**91**	*	*
Bowdle	24	*	*	69	*	*
Ipswich	6	*	*	22	*	*
Fall River	**87**	*	*	**273**	**16.8%**	**4.1%**
Hot Springs	87	*	*	273	16.8%	4.1%
Faulk	**19**	*	*	**60**	*	*
Faulkton	19	*	*	60	*	*
Grant	**67**	*	*	**226**	**18.6%**	**4.7%**
Milbank	67	*	*	226	18.6%	4.7%
Gregory	**48**	*	*	**146**	**18.5%**	**5.9%**
Bonesteel	12	*	*	37	*	*
Burke	36	*	*	109	16.5%	6.4%
Haakon	**21**	*	*	**74**	*	*
Philip	21	*	*	74	*	*
Hamlin	**65**	*	*	**219**	**14.6%**	**4.2%**
Hayti	65	*	*	219	14.6%	4.2%
Hand	**29**	*	*	**121**	**14.0%**	**5.6%**
Miller	29	*	*	121	14.0%	5.6%
Hanson	**44**	*	*	**126**	**10.3%**	**4.7%**
Alexandria	44	*	*	126	10.3%	4.7%
Harding	**5**	*	*	**18**	*	*
Buffalo	5	*	*	18	*	*
Hughes	**186**	**23.1%**	**5.8%**	**517**	**25.0%**	**3.6%**
Pierre	186	23.1%	5.8%	517	25.0%	3.6%
Hutchinson	**55**	*	*	**155**	**25.2%**	**6.6%**
Freeman	32	*	*	69	*	*
Parkston	23	*	*	86	*	*
Hyde	**26**	*	*	**77**	*	*
Highmore	26	*	*	77	*	*
Jackson	**122**	**22.1%**	**7.0%**	**338**	**20.1%**	**4.0%**
Kadoka	29	*	*	91	*	*
Wanblee	93	*	*	247	21.1%	4.8%
Jerauld	**20**	*	*	**45**	*	*
Wessington Springs	20	*	*	45	*	*
Jones	**25**	*	*	**79**	*	*
Murdo	25	*	*	79	*	*

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
(6) At Risk of Overweight: 85th to 95th percentile based on BMI-for-age for children 2 years of age and older; excludes
    records with biologically implausible values for height, age, and weight.
* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of
   reliability or precision.

Table 13 (Continued)

Pediatric Nutrition Surveillance System
At Risk of Overweight - Ages 2 to 5 Years
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data At Risk of Overweight (6)			Three Year Data (2002-2004) At Risk of Overweight (6)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Kingsbury	**23**	*	*	**73**	*	*
De Smet	23	*	*	73	*	*
Lake	**87**	*	*	**264**	**18.9%**	**4.4%**
Madison	87	*	*	264	18.9%	4.4%
Lawrence	**172**	**11.0%**	**4.2%**	**509**	**10.6%**	**2.4%**
Deadwood	50	*	*	155	9.7%	4.1%
Spearfish	122	11.5%	5.1%	354	11.0%	2.9%
Lincoln	**52**	*	*	**163**	**16.0%**	**5.2%**
Canton	52	*	*	163	16.0%	5.2%
Lyman	**126**	**22.2%**	**6.9%**	**381**	**16.8%**	**3.5%**
Kennebec	22	*	*	74	*	*
Lower Brule	104	24.0%	7.9%	307	17.9%	4.0%
Marshall	**33**	*	*	**92**	*	*
Britton	33	*	*	92	*	*
McCook	**52**	*	*	**167**	**18.6%**	**5.5%**
Salem	52	*	*	167	18.6%	5.5%
McPherson	**20**	*	*	**67**	*	*
Eureka	11	*	*	35	*	*
Leola	9	*	*	32	*	*
Meade	**198**	**13.6%**	**4.3%**	**564**	**16.0%**	**2.8%**
Faith	26	*	*	81	*	*
Sturgis	172	13.4%	4.6%	483	14.9%	2.9%
Miner	**25**	*	*	**64**	*	*
Howard	25	*	*	64	*	*
Minnehaha	**1,363**	**18.7%**	**1.9%**	**3,960**	**18.6%**	**1.1%**
Sioux Falls	1,363	18.7%	1.9%	3,960	18.6%	1.1%
Moody	**65**	*	*	**180**	**18.9%**	**5.3%**
Flandreau	65	*	*	180	18.9%	5.3%
Pennington	**1,638**	**18.6%**	**1.8%**	**4,770**	**17.0%**	**1.0%**
Ellsworth	198	10.1%	3.7%	636	10.1%	2.1%
Hill City	36	*	*	96	*	*
Rapid City	1,384	20.0%	2.0%	3,975	18.4%	1.1%
Wall	20	*	*	63	*	*
Perkins	**46**	*	*	**165**	**14.5%**	**4.9%**
Bison	14	*	*	53	*	*
Lemmon	32	*	*	112	10.7%	5.1%

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
(6) At Risk of Overweight: 85th to 95th percentile based on BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.
* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 13 (Continued)

Pediatric Nutrition Surveillance System
At Risk of Overweight - Ages 2 to 5 Years
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data At Risk of Overweight (6)			Three Year Data (2002-2004) At Risk of Overweight (6)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Potter	**26**	*	*	**83**	*	*
Hoven	26	*	*	83	*	*
Roberts	**207**	**16.4%**	**4.6%**	**602**	**16.6%**	**2.7%**
Sisseton	207	16.4%	4.6%	602	16.6%	2.7%
Sanborn	**17**	*	*	**56**	*	*
Woonsocket	17	*	*	56	*	*
Shannon	**557**	**15.1%**	**2.7%**	**1,696**	**15.0%**	**1.5%**
Kyle	147	25.2%	6.8%	466	24.5%	3.8%
Manderson	38	*	*	112	1.8%	2.1%
Pine Ridge	318	11.6%	3.1%	933	12.3%	1.9%
Porcupine	54	*	*	185	13.0%	4.4%
Spink	**60**	*	*	**173**	**16.2%**	**5.0%**
Redfield	60	*	*	173	16.2%	5.0%
Stanley	**60**	*	*	**154**	**16.9%**	**5.4%**
Ft. Pierre	60	*	*	154	16.9%	5.4%
Sully	**4**	*	*	**21**	*	*
Onida	4	*	*	21	*	*
Tripp	**94**	*	*	**244**	**16.4%**	**4.3%**
Winner	94	*	*	244	16.4%	4.3%
Turner	**53**	*	*	**137**	**18.2%**	**6.0%**
Parker	18	*	*	51	*	*
Viborg	35	*	*	86	*	*
Union	**71**	*	*	**170**	**12.9%**	**4.5%**
Elk Point	71	*	*	170	12.9%	4.5%
Walworth	**78**	*	*	**259**	**21.2%**	**4.7%**
Mobridge	72	*	*	240	22.5%	5.0%
Selby	6	*	*	19	*	*
Yankton	**225**	**18.7%**	**4.7%**	**632**	**17.1%**	**2.7%**
Yankton	225	18.7%	4.7%	632	17.1%	2.7%
Ziebach	**23**	*	*	**73**	*	*
Dupree	23	*	*	73	*	*
Statewide PedNSS	**8,605**	**18.1%**	**0.8%**	**25,398**	**17.5%**	**0.4%**
National 2003		**15.7%**				

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (6) At Risk of Overweight: 85th to 95th percentile based on BMI-for-age for children 2 years of age and older; excludes
    records with biologically implausible values for height, age, and weight.
*   Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of
    reliability or precision.

Table 14

**Pediatric Nutrition Surveillance System
At Risk of Overweight - Ages 2 to 5 Years
Reporting Period 01/01/2004 to 12/31/2004**

Region**	2004 Data At Risk of Overweight (6)			Three Year Data (2002-2004) At Risk of Overweight (6)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Aberdeen Area	445	14.8%	3.0%	1,307	15.1%	1.8%
East Central	381	15.7%	3.3%	1,103	14.2%	1.9%
Huron-Redfield	272	16.9%	4.1%	764	17.0%	2.5%
Mitchell-Chamberlain	362	19.3%	3.8%	1,059	20.1%	2.3%
Northern Black Hills	370	12.4%	3.0%	1,073	13.4%	1.8%
Northeast Area	620	20.0%	3.0%	1,922	18.2%	1.6%
North Central	153	14.4%	5.0%	499	15.8%	2.9%
Northwest Area	250	17.2%	4.3%	790	15.3%	2.3%
Oahe Area	331	22.1%	4.3%	973	21.1%	2.4%
Pickstown Area	446	21.1%	3.6%	1,345	20.4%	2.0%
Pine Ridge Area	778	17.0%	2.4%	2,304	16.6%	1.4%
Rapid City Area	1,638	18.6%	1.8%	4,770	17.0%	1.0%
Southeast Area	430	17.7%	3.3%	1,220	17.0%	1.9%
Sioux Falls Area	1,363	18.7%	1.9%	3,960	18.6%	1.1%
Sioux Empire Area	269	16.0%	4.0%	795	17.9%	2.5%
South Central	358	21.2%	4.0%	1,085	18.9%	2.2%
Southern Black Hills	139	17.3%	5.8%	429	19.1%	3.5%
Statewide PedNSS	**8,605**	**18.1%**	**0.8%**	**25,398**	**17.5%**	**0.4%**
National 2003		**15.7%**				

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (6) At Risk of Overweight: 85th to 95th percentile based on BMI-for-age for children 2 years of age and older; excludes
      records with biologically implausible values for height, age, and weight.
** Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

Table 15

Pediatric Nutrition Surveillance System
Overweight - Ages 2 to 5 Years
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Overweight (7)			Three Year Data (2002-2004) Overweight (7)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Aurora	**35**	*	*	**106**	**17.0%**	**6.6%**
Plankinton	35	*	*	106	17.0%	6.6%
Beadle	**212**	**11.3%**	**3.8%**	**591**	**10.3%**	**2.2%**
Huron	212	11.3%	3.8%	591	10.3%	2.2%
Bennett	**99**	*	*	**270**	**23.3%**	**4.8%**
Martin	99	*	*	270	23.3%	4.8%
Bon Homme	**73**	*	*	**224**	**8.5%**	**3.2%**
Tyndall	73	*	*	224	8.5%	3.2%
Brookings	**228**	**7.9%**	**3.1%**	**631**	**8.1%**	**1.9%**
Brookings	228	7.9%	3.1%	631	8.1%	1.9%
Brown	**328**	**11.6%**	**3.1%**	**960**	**11.6%**	**1.8%**
Aberdeen	328	11.6%	3.1%	960	11.6%	1.8%
Brule	**53**	*	*	**176**	**10.2%**	**4.0%**
Chamberlain	44	*	*	142	10.6%	4.5%
Kimball	9	*	*	34	*	*
Buffalo	**92**	*	*	**307**	**19.9%**	**4.2%**
Ft. Thompson	92	*	*	307	19.9%	4.2%
Butte	**155**	**13.5%**	**4.9%**	**447**	**12.3%**	**2.7%**
Belle Fourche	130	14.6%	5.5%	371	13.7%	3.2%
Newell	25	*	*	76	6.0%	4.6%
Charles Mix	**242**	**13.2%**	**3.8%**	**720**	**14.6%**	**2.3%**
Lake Andes	79	*	*	208	10.1%	3.6%
Platte	27	*	*	80	*	*
Wagner	136	16.9%	5.8%	432	18.5%	3.4%
Clark	**36**	*	*	**112**	**10.7%**	**5.1%**
Clark	36	*	*	112	10.7%	5.1%
Clay	**134**	**12.7%**	**5.1%**	**418**	**13.9%**	**3.0%**
Vermillion	134	12.7%	5.1%	418	13.9%	3.0%
Codington	**281**	**15.3%**	**3.8%**	**903**	**16.8%**	**2.2%**
Watertown	281	15.3%	3.8%	903	16.8%	2.2%
Corson	**6**	*	*	**22**	*	*
McLaughlin	6	*	*	22	*	*
Custer	**52**	*	*	**156**	**10.3%**	**4.2%**
Custer	52	*	*	156	10.3%	4.2%
Davison	**193**	**15.0%**	**4.6%**	**550**	**13.8%**	**2.6%**
Mitchell	193	15.0%	4.6%	550	13.8%	2.6%
Day	**84**	*	*	**255**	**7.1%**	**2.7%**
Webster	84	*	*	255	7.1%	2.7%
Deuel	**29**	*	*	**79**	*	*
Clear Lake	29	*	*	79	*	*

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
(7) Overweight: greater than or equal to 95th percentile based on BMI-for-age for children 2 years of age and older; excludes
    records with biologically implausible values for height, age, and weight.
* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of
    reliability or precision.

Table 15 (Continued)

Pediatric Nutrition Surveillance System
Overweight - Ages 2 to 5 Years
Reporting Period 01/01/2004 to 12/31/2004

County	2004 Data Overweight (7)			Three Year Data (2002-2004) Overweight (7)		
Clinic	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Dewey	**21**	*	*	**87**	*	*
Isabel	4	*	*	23	*	*
Timber Lake	17	*	*	64	*	*
Douglas	**28**	*	*	**100**	**12.0%**	**5.7%**
Armour	28	*	*	100	12.0%	5.7%
Edmunds	**30**	*	*	**91**	*	*
Bowdle	24	*	*	69	*	*
Ipswich	6	*	*	22	*	*
Fall River	**87**	*	*	**273**	**12.5%**	**3.5%**
Hot Springs	87	*	*	273	12.5%	3.5%
Faulk	**19**	*	*	**60**	*	*
Faulkton	19	*	*	60	*	*
Grant	**67**	*	*	**226**	**13.7%**	**4.1%**
Milbank	67	*	*	226	13.7%	4.1%
Gregory	**48**	*	*	**146**	**9.6%**	**4.2%**
Bonesteel	12	*	*	37	*	*
Burke	36	*	*	109	5.5%	3.7%
Haakon	**21**	*	*	**74**	*	*
Philip	21	*	*	74	*	*
Hamlin	**65**	*	*	**219**	**6.8%**	**2.9%**
Hayti	65	*	*	219	6.8%	2.9%
Hand	**29**	*	*	**121**	**2.5%**	**2.4%**
Miller	29	*	*	121	2.5%	2.4%
Hanson	**44**	*	*	**126**	**10.3%**	**4.7%**
Alexandria	44	*	*	126	10.3%	4.7%
Harding	**5**	*	*	**18**	*	*
Buffalo	5	*	*	18	*	*
Hughes	**186**	**21.5%**	**5.6%**	**517**	**18.0%**	**3.1%**
Pierre	186	21.5%	5.6%	517	18.0%	3.1%
Hutchinson	**55**	*	*	**155**	**5.8%**	**3.2%**
Freeman	32	*	*	69	*	*
Parkston	23	*	*	86	*	*
Hyde	**26**	*	*	**77**	*	*
Highmore	26	*	*	77	*	*
Jackson	**122**	**24.6%**	**7.4%**	**338**	**27.5%**	**4.7%**
Kadoka	29	*	*	91	*	*
Wanblee	93	*	*	247	27.1%	5.4%
Jerauld	**20**	*	*	**45**	*	*
Wessington Springs	20	*	*	45	*	*
Jones	**25**	*	*	**79**	*	*
Murdo	25	*	*	79	*	*

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (7) Overweight: greater than or equal to 95th percentile based on BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.
*   Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 15 (Continued)

Pediatric Nutrition Surveillance System
Overweight - Ages 2 to 5 Years
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Overweight (7)			Three Year Data (2002-2004) Overweight (7)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Kingsbury	**23**	*	*	**73**	*	*
De Smet	23	*	*	73	*	*
Lake	**87**	*	*	**264**	**14.8%**	**3.9%**
Madison	87	*	*	264	14.8%	3.9%
Lawrence	**172**	**11.6%**	**4.3%**	**509**	**7.7%**	**2.0%**
Deadwood	50	*	*	155	7.7%	3.7%
Spearfish	122	12.3%	5.2%	354	7.6%	2.4%
Lincoln	**52**	*	*	**163**	**16.0%**	**5.2%**
Canton	52	*	*	163	16.0%	5.2%
Lyman	**126**	**10.3%**	**4.7%**	**381**	**12.3%**	**3.0%**
Kennebec	22	*	*	74	*	*
Lower Brule	104	8.7%	4.8%	307	13.4%	3.4%
Marshall	**33**	*	*	**92**	*	*
Britton	33	*	*	92	*	*
McCook	**52**	*	*	**167**	**13.2%**	**4.6%**
Salem	52	*	*	167	13.2%	4.6%
McPherson	**20**	*	*	**67**	*	*
Eureka	11	*	*	35	*	*
Leola	9	*	*	32	*	*
Meade	**198**	**14.1%**	**4.4%**	**564**	**11.5%**	**2.3%**
Faith	26	*	*	81	*	*
Sturgis	172	12.8%	4.5%	483	10.6%	2.4%
Miner	**25**	*	*	**64**	*	*
Howard	25	*	*	64	*	*
Minnehaha	**1,363**	**15.7%**	**1.8%**	**3,960**	**15.2%**	**1.0%**
Sioux Falls	1,363	15.7%	1.8%	3,960	15.2%	1.0%
Moody	**65**	*	*	**180**	**18.3%**	**5.2%**
Flandreau	65	*	*	180	18.3%	5.2%
Pennington	**1,638**	**12.3%**	**1.4%**	**4,770**	**11.8%**	**0.8%**
Ellsworth	198	7.1%	3.1%	636	6.6%	1.7%
Hill City	36	*	*	96	*	*
Rapid City	1,384	13.4%	1.6%	3,975	12.9%	0.9%
Wall	20	*	*	63	*	*
Perkins	**46**	*	*	**165**	**9.1%**	**3.9%**
Bison	14	*	*	53	*	*
Lemmon	32	*	*	112	9.8%	4.9%

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
(7) Overweight: greater than or equal to 95th percentile based on BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.
*   Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 15 (Continued)

Pediatric Nutrition Surveillance System
Overweight - Ages 2 to 5 Years
Reporting Period 01/01/2004 to 12/31/2004

County	2004 Data Overweight (7)			Three Year Data (2002-2004) Overweight (7)		
Clinic	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Potter	**26**	*	*	**83**	*	*
Hoven	26	*	*	83	*	*
Roberts	**207**	**19.3%**	**5.0%**	**602**	**17.9%**	**2.8%**
Sisseton	207	19.3%	5.0%	602	17.9%	2.8%
Sanborn	**17**	*	*	**56**	*	*
Woonsocket	17	*	*	56	*	*
Shannon	**557**	**13.8%**	**2.6%**	**1,696**	**13.0%**	**1.4%**
Kyle	147	26.5%	7.0%	466	27.5%	4.0%
Manderson	38	*	*	112	3.6%	2.9%
Pine Ridge	318	10.4%	3.0%	933	7.8%	1.5%
Porcupine	54	*	*	185	8.6%	3.5%
Spink	**60**	*	*	**173**	**12.7%**	**4.5%**
Redfield	60	*	*	173	12.7%	4.5%
Stanley	**60**	*	*	**154**	**13.6%**	**4.9%**
Ft. Pierre	60	*	*	154	13.6%	4.9%
Sully	**4**	*	*	**21**	*	*
Onida	4	*	*	21	*	*
Tripp	**94**	*	*	**244**	**13.1%**	**3.8%**
Winner	94	*	*	244	13.1%	3.8%
Turner	**53**	*	*	**137**	**10.9%**	**4.6%**
Parker	18	*	*	51	*	*
Viborg	35	*	*	86	*	*
Union	**71**	*	*	**170**	**18.8%**	**5.5%**
Elk Point	71	*	*	170	18.8%	5.5%
Walworth	**78**	*	*	**259**	**12.7%**	**3.6%**
Mobridge	72	*	*	240	13.8%	3.9%
Selby	6	*	*	19	*	*
Yankton	**225**	**20.9%**	**5.0%**	**632**	**18.8%**	**2.8%**
Yankton	225	20.9%	5.0%	632	18.8%	2.8%
Ziebach	**23**	*	*	**73**	*	*
Dupree	23	*	*	73	*	*
Statewide PedNSS	**8,605**	**13.9%**	**0.7%**	**25,398**	**13.4%**	**0.4%**
National 2003		**14.7%**				

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (7) Overweight: greater than or equal to 95th percentile based on BMI-for-age for children 2 years of age and older; excludes
     records with biologically implausible values for height, age, and weight.
*   Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of
     reliability or precision.

Table 16

Pediatric Nutrition Surveillance System
Overweight - Ages 2 to 5 Years
Reporting Period 01/01/2004 to 12/31/2004

Region**	2003 Data Overweight (7)			Three Year Data (2001-2003) Overweight (7)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Aberdeen Area	445	11.0%	2.6%	1,307	10.9%	1.5%
East Central	381	10.8%	2.8%	1,103	9.5%	1.5%
Huron-Redfield	272	11.8%	3.4%	764	10.9%	2.0%
Mitchell-Chamberlain	362	14.4%	3.3%	1,059	13.7%	1.9%
Northern Black Hills	370	13.0%	3.1%	1,073	9.7%	1.6%
Northeast Area	620	15.5%	2.6%	1,922	16.2%	1.5%
North Central	153	13.7%	4.9%	499	12.2%	2.6%
Northwest Area	250	12.4%	3.7%	790	11.4%	2.0%
Oahe Area	331	16.3%	3.7%	973	14.9%	2.0%
Pickstown Area	446	11.0%	2.6%	1,345	11.8%	1.5%
Pine Ridge Area	778	17.0%	2.4%	2,304	16.4%	1.4%
Rapid City Area	1,638	12.3%	1.4%	4,770	11.8%	0.8%
Southeast Area	430	18.8%	3.4%	1,220	17.1%	1.9%
Sioux Falls Area	1,363	15.7%	1.8%	3,960	15.2%	1.0%
Sioux Empire Area	269	13.4%	3.7%	795	13.3%	2.1%
South Central	358	10.3%	2.8%	1,085	14.2%	1.9%
Southern Black Hills	139	12.2%	4.9%	429	11.7%	2.7%
Statewide PedNSS	**8,605**	**13.9%**	**0.7%**	**25,398**	**13.4%**	**0.4%**
National 2003		**14.7%**				

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (7) Overweight: greater than or equal to 95th percentile based on BMI-for-age for children 2 years of age and older; excludes
     records with biologically implausible values for height, age, and weight.
** Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.
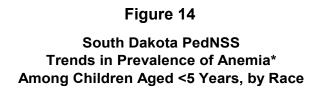
Anemia
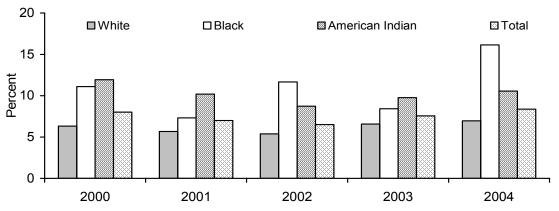
Anemia is defined as having low hemoglobin (Hb) concentrations or hematocrit (Hct) values when measuring a healthy reference population of the same age. The PedNSS uses a hemoglobin and/or hematocrit value below the 5th percentile of the third National Health and Nutrition Examination Survey (NHANES III) reference population.

The percent prevalence in South Dakota's PedNSS population with anemia was 8.4 percent in 2004, up from 7.6 percent in 2003. The percent of the South Dakota PedNSS population with anemia was 7.5 percent over the three-year period 2002-2004. The United States PedNSS population had an anemia rate of 12.8 percent in calendar year 2003.

Figure 13

South Dakota PedNSS
Prevalence of Anemia*
Among Children Aged <5 Years, by Race

* Hb or Hct < 5th percentile, CDC MMWR vol. 47 (No. RR-3), 1998.

Figure 14

South Dakota PedNSS
Trends in Prevalence of Anemia*
Among Children Aged <5 Years, by Race

* Hb or Hct < 5th percentile, CDC MMWR vol. 47 (No. RR-3), 1998.

The Healthy People 2010 Goal: Target for reducing iron deficiency among children ages 1-2 is 5 percent and children ages 3-4 is one percent.

The percent prevalence of children with anemia by race in South Dakota's 2004 PedNSS population was:
- 7.0 percent for whites
- 16.1 percent for blacks
- 10.6 percent for American Indians or Alaskan Natives
- 16.8 percent for Asian or Pacific Islanders.

The age breakdown for this population was:
- less than 12 months, 11.5 percent;
- 12 through 17 months, 10.7 percent;
- 18 through 23 months, 8.4 percent;
- 24 through 35 months, 9.0 percent;
- 36 through 59 months, 4.7.

When converted to whole years the age breakdown for this population was:
- less than one year, 11.5 percent
- 1 year, 9.5 percent
- 2 years, 9.0 percent
- 3 years, 5.3 percent
- 4 years of age, 3.9 percent

Table 17

Pediatric Nutrition Surveillance System
Anemia
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Anemia (8)			Three Year Data (2002-2004) Anemia (8)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Aurora	**49**	*	*	**159**	**9.4%**	**4.0%**
Plankinton	49	*	*	159	9.4%	4.0%
Beadle	**336**	**2.7%**	**1.5%**	**1,017**	**2.9%**	**0.9%**
Huron	336	2.7%	1.5%	1,017	2.9%	0.9%
Bennett	**176**	**26.7%**	**6.4%**	**483**	**20.3%**	**3.4%**
Martin	176	26.7%	6.4%	483	20.3%	3.4%
Bon Homme	**120**	**11.7%**	**5.1%**	**352**	**7.1%**	**2.3%**
Tyndall	120	11.7%	5.1%	352	7.1%	2.3%
Brookings	**353**	**4.0%**	**1.8%**	**1,024**	**3.9%**	**1.0%**
Brookings	353	4.0%	1.8%	1,024	3.9%	1.0%
Brown	**592**	**6.8%**	**1.8%**	**1,655**	**6.6%**	**1.0%**
Aberdeen	592	6.8%	1.8%	1,655	6.6%	1.0%
Brule	**88**	*	*	**266**	**4.1%**	**2.0%**
Chamberlain	73	*	*	223	4.5%	2.3%
Kimball	15	*	*	43	*	*
Buffalo	**173**	**5.2%**	**2.9%**	**508**	**4.7%**	**1.6%**
Ft. Thompson	173	5.2%	2.9%	508	4.7%	1.6%
Butte	**242**	**4.1%**	**2.1%**	**687**	**6.7%**	**1.6%**
Belle Fourche	200	2.5%	1.8%	574	6.3%	1.7%
Newell	42	*	*	113	8.8%	4.6%
Charles Mix	**376**	**11.2%**	**2.8%**	**1,092**	**10.0%**	**1.6%**
Lake Andes	116	10.3%	4.9%	310	8.4%	2.7%
Platte	38	*	*	117	13.7%	5.6%
Wagner	222	11.7%	3.8%	665	10.1%	2.0%
Clark	**62**	*	*	**181**	**7.2%**	**3.3%**
Clark	62	*	*	181	7.2%	3.3%
Clay	**212**	**4.7%**	**2.4%**	**655**	**5.3%**	**1.5%**
Vermillion	212	4.7%	2.4%	655	5.3%	1.5%
Codington	**468**	**5.6%**	**1.8%**	**1,449**	**5.9%**	**1.0%**
Watertown	468	5.6%	1.8%	1,449	5.9%	1.0%
Corson	**8**	*	*	**33**	*	*
McLaughlin	8	*	*	33	*	*
Custer	**81**	*	*	**226**	**6.6%**	**2.8%**
Custer	81	*	*	226	6.6%	2.8%
Davison	**338**	**12.7%**	**3.2%**	**984**	**7.5%**	**1.4%**
Mitchell	338	12.7%	3.2%	984	7.5%	1.4%
Day	**130**	**1.5%**	**1.8%**	**380**	**2.4%**	**1.3%**
Webster	130	1.5%	1.8%	380	2.4%	1.3%
Deuel	**47**	*	*	**105**	**5.7%**	**3.8%**
Clear Lake	47	*	*	105	5.7%	3.8%

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (8) Anemia: Hemoglobin (Hb) concentrations or hematocrit (Hct) values less than 5th percentile of NHANES III survey;
    children 6 months to 5 years of age included in the analysis.
 * Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of
    reliability or precision.

Table 17 (Continued)

Pediatric Nutrition Surveillance System
Anemia
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Anemia (8)			Three Year Data (2002-2004) Anemia (8)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Dewey	**39**	*	*	**138**	**1.4%**	**1.7%**
Isabel	8	*	*	42	*	*
Timber Lake	31	*	*	96	*	*
Douglas	**39**	*	*	**136**	**14.0%**	**5.3%**
Armour	39	*	*	136	14.0%	5.3%
Edmunds	**39**	*	*	**129**	**1.6%**	**1.8%**
Bowdle	29	*	*	95	*	*
Ipswich	10	*	*	34	*	*
Fall River	**154**	**14.3%**	**5.0%**	**430**	**11.6%**	**2.7%**
Hot Springs	154	14.3%	5.0%	430	11.6%	2.7%
Faulk	**31**	*	*	**95**	*	*
Faulkton	31	*	*	95	*	*
Grant	**116**	**6.9%**	**4.0%**	**388**	**5.4%**	**1.9%**
Milbank	116	6.9%	4.0%	388	5.4%	1.9%
Gregory	**68**	*	*	**230**	**2.6%**	**1.7%**
Bonesteel	13	*	*	57	*	*
Burke	55	*	*	173	1.7%	1.6%
Haakon	**32**	*	*	**112**	**2.7%**	**2.6%**
Philip	32	*	*	112	2.7%	2.6%
Hamlin	**122**	**13.9%**	**5.6%**	**344**	**16.3%**	**3.6%**
Hayti	122	13.9%	5.6%	344	16.3%	3.6%
Hand	**43**	*	*	**168**	**6.5%**	**3.2%**
Miller	43	*	*	168	6.5%	3.2%
Hanson	**68**	*	*	**194**	**5.7%**	**2.8%**
Alexandria	68	*	*	194	5.7%	2.8%
Harding	**10**	*	*	**28**	*	*
Buffalo	10	*	*	28	*	*
Hughes	**320**	**2.2%**	**1.4%**	**885**	**2.0%**	**0.8%**
Pierre	320	2.2%	1.4%	885	2.0%	0.8%
Hutchinson	**82**	*	*	**255**	**7.5%**	**2.8%**
Freeman	47	*	*	119	11.8%	5.2%
Parkston	35	*	*	136	3.7%	2.7%
Hyde	**25**	*	*	**93**	*	*
Highmore	25	*	*	93	*	*
Jackson	**197**	**17.3%**	**4.9%**	**561**	**20.3%**	**3.1%**
Kadoka	43	*	*	132	10.6%	4.7%
Wanblee	154	20.1%	5.9%	429	23.3%	3.8%
Jerauld	**36**	*	*	**81**	*	*
Wessington Springs	36	*	*	81	*	*
Jones	**27**	*	*	**105**	**8.6%**	**4.7%**
Murdo	27	*	*	105	8.6%	4.7%

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (8) Anemia: Hemoglobin (Hb) concentrations or hematocrit (Hct) values less than 5th percentile of NHANES III survey;
    children 6 months to 5 years of age included in the analysis.
*   Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of
    reliability or precision.

Table 17 (Continued)

Pediatric Nutrition Surveillance System
Anemia
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Anemia (8)			Three Year Data (2002-2004) Anemia (8)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Kingsbury	**36**	*	*	**122**	**1.6%**	**1.9%**
De Smet	36	*	*	122	1.6%	1.9%
Lake	**145**	**4.8%**	**3.0%**	**443**	**5.4%**	**1.8%**
Madison	145	4.8%	3.0%	443	5.4%	1.8%
Lawrence	**300**	**2.0%**	**1.3%**	**941**	**3.0%**	**0.9%**
Deadwood	92	*	*	300	3.3%	1.7%
Spearfish	208	1.4%	1.3%	641	2.8%	1.1%
Lincoln	**77**	*	*	**259**	**3.5%**	**1.9%**
Canton	77	*	*	259	3.5%	1.9%
Lyman	**196**	**2.0%**	**1.7%**	**566**	**2.1%**	**1.0%**
Kennebec	28	*	*	95	*	*
Lower Brule	168	2.4%	2.0%	471	2.3%	1.1%
Marshall	**48**	*	*	**128**	**2.3%**	**2.2%**
Britton	48	*	*	128	2.3%	2.2%
McCook	**90**	*	*	**251**	**2.8%**	**1.7%**
Salem	90	*	*	251	2.8%	1.7%
McPherson	**30**	*	*	**101**	**7.9%**	**4.6%**
Eureka	16	*	*	57	*	*
Leola	14	*	*	44	*	*
Meade	**305**	**11.8%**	**3.2%**	**895**	**7.7%**	**1.5%**
Faith	38	*	*	121	2.5%	2.4%
Sturgis	267	13.5%	3.7%	774	8.5%	1.7%
Miner	**35**	*	*	**103**	**3.9%**	**3.2%**
Howard	35	*	*	103	3.9%	3.2%
Minnehaha	**2,450**	**9.5%**	**1.0%**	**6,970**	**7.8%**	**0.6%**
Sioux Falls	2,450	9.5%	1.0%	6,970	7.8%	0.6%
Moody	**115**	**10.4%**	**4.9%**	**332**	**17.2%**	**3.7%**
Flandreau	115	10.4%	4.9%	332	17.2%	3.7%
Pennington	**2,813**	**8.6%**	**0.9%**	**8,074**	**7.4%**	**0.5%**
Ellsworth	335	9.9%	2.8%	1,083	11.4%	1.7%
Hill City	55	*	*	148	3.4%	2.5%
Rapid City	2,398	8.6%	1.0%	6,758	6.9%	0.5%
Wall	25	*	*	85	*	*
Perkins	**66**	*	*	**233**	**5.6%**	**2.6%**
Bison	20	*	*	69	*	*
Lemmon	46	*	*	164	3.0%	2.2%

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.

(8) Anemia: Hemoglobin (Hb) concentrations or hematocrit (Hct) values less than 5th percentile of NHANES III survey; children 6 months to 5 years of age included in the analysis.

* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 17 (Continued)

Pediatric Nutrition Surveillance System
Anemia
Reporting Period 01/01/2004 to 12/31/2004

County	2004 Data Anemia (8)			Three Year Data (2002-2004) Anemia (8)		
Clinic	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Potter	**42**	*	*	**126**	**3.2%**	**2.6%**
Hoven	42	*	*	126	3.2%	2.6%
Roberts	**354**	**12.7%**	**3.1%**	**979**	**11.8%**	**1.8%**
Sisseton	354	12.7%	3.1%	979	11.8%	1.8%
Sanborn	**29**	*	*	**111**	**8.1%**	**4.4%**
Woonsocket	29	*	*	111	8.1%	4.4%
Shannon	**988**	**11.7%**	**1.8%**	**2,858**	**10.8%**	**1.0%**
Kyle	252	3.6%	2.0%	725	2.6%	1.0%
Manderson	70	*	*	193	15.0%	4.6%
Pine Ridge	575	12.7%	2.4%	1,637	12.0%	1.4%
Porcupine	91	*	*	303	20.8%	4.3%
Spink	**98**	*	*	**299**	**6.0%**	**2.3%**
Redfield	98	*	*	299	6.0%	2.3%
Stanley	**92**	*	*	**240**	**6.7%**	**2.7%**
Ft. Pierre	92	*	*	240	6.7%	2.7%
Sully	**8**	*	*	**34**	*	*
Onida	8	*	*	34	*	*
Tripp	**135**	**14.1%**	**5.3%**	**390**	**14.1%**	**3.1%**
Winner	135	14.1%	5.3%	390	14.1%	3.1%
Turner	**86**	*	*	**224**	**8.5%**	**3.2%**
Parker	36	*	*	91	*	*
Viborg	50	*	*	133	6.0%	3.5%
Union	**104**	**3.8%**	**3.1%**	**279**	**6.1%**	**2.4%**
Elk Point	104	3.8%	3.1%	279	6.1%	2.4%
Walworth	**124**	**0.8%**	**1.3%**	**389**	**3.6%**	**1.6%**
Mobridge	111	0.9%	1.5%	353	3.7%	1.7%
Selby	13	*	*	36	*	*
Yankton	**389**	**11.3%**	**2.8%**	**1,087**	**9.5%**	**1.5%**
Yankton	389	11.3%	2.8%	1,087	9.5%	1.5%
Ziebach	**31**	*	*	**105**	**0.0%**	*
Dupree	31	*	*	105	0.0%	*
Statewide PedNSS	**14,485**	**8.4%**	**0.4%**	**42,167**	**7.5%**	**0.2%**
National 2003		**12.8%**				

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (8) Anemia: Hemoglobin (Hb) concentrations or hematocrit (Hct) values less than 5th percentile of NHANES III survey; children 6 months to 5 years of age included in the analysis.
* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 18

Pediatric Nutrition Surveillance System
Anemia
Reporting Period 01/01/2004 to 12/31/2004

Region**	2004 Data Anemia (8)			Three Year Data (2002-2004) Anemia (8)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Aberdeen Area	770	5.6%	1.4%	2,163	5.6%	0.8%
East Central	626	6.9%	1.7%	1,822	8.5%	1.1%
Huron-Redfield	434	3.5%	1.5%	1,316	3.6%	0.9%
Mitchell-Chamberlain	608	9.5%	2.1%	1,795	6.8%	1.0%
Northern Black Hills	605	6.9%	1.8%	1,836	5.3%	0.9%
Northeast Area	1,047	8.1%	1.4%	3,102	7.8%	0.8%
North Central	232	3.0%	1.9%	747	5.8%	1.4%
Northwest Area	388	3.4%	1.5%	1,191	5.1%	1.1%
Oahe Area	530	4.0%	1.4%	1,546	3.2%	0.7%
Pickstown Area	685	9.9%	2.0%	2,065	8.6%	1.1%
Pine Ridge Area	1,361	14.5%	1.7%	3,902	13.3%	1.0%
Rapid City Area	2,813	8.6%	0.9%	8,074	7.4%	0.5%
Southeast Area	705	8.2%	1.8%	2,021	7.7%	1.0%
Sioux Falls Area	2,450	9.5%	1.0%	6,970	7.8%	0.6%
Sioux Empire Area	433	5.5%	1.9%	1,280	4.9%	1.0%
South Central	563	6.0%	1.7%	1,681	6.1%	1.0%
Southern Black Hills	235	12.8%	3.8%	656	9.9%	2.0%
Statewide PedNSS	**14,485**	**8.4%**	**0.4%**	**42,167**	**7.5%**	**0.2%**
National 2003		12.8%				

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
 (8) Anemia: Hemoglobin (Hb) concentrations or hematocrit (Hct) values less than 5th percentile of NHANES III survey;
    children 6 months to 5 years of age included in the analysis.
** Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

Breastfeeding

Initiation

Healthy People 2010 Goal: Is to increase the proportion of mothers who breastfeed their babies in the early postpartum period to at least 75 percent, 50 percent at 6 months and at least 25 percent at one year.

According to the 2004 PedNSS population in SD, 56.8 percent of children 2 years of age and under were ever breastfed. This is an increase from the 2003 rate of 55.98 percent. The three-year rate for 2002 through 2004 PedNSS population was 54.4 percent. The United States rate for the PedNSS population that had ever breastfed was 53.2 percent in calendar year 2003.

Figure 15

South Dakota PedNSS
Percentage of Infants Ever Breastfed*
by Race

* Among infants born during the reporting period.
** Increase the proportion of mothers who breastfeed their babies in the early postpartum period to 75%.
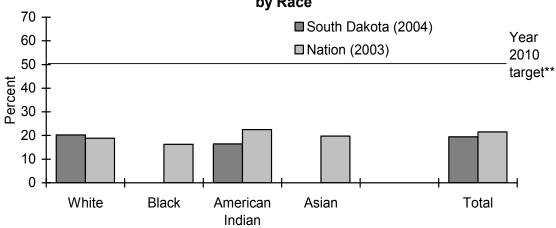
The South Dakota PedNSS populations by race in 2004 who ever breastfed was:
- 59.4 percent for whites
- 60.9 percent for blacks
- 48.7 percent for American Indian.

Six Months or More

Figure 16

South Dakota PedNSS
Percentage of Infants Breastfed at Least 6 Months*
by Race
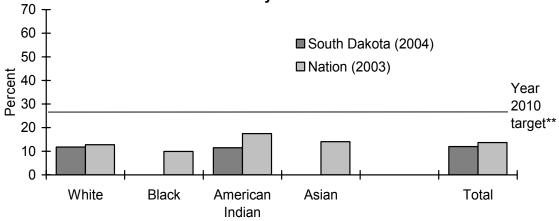
* Among infants who turned 6 months of age during the reporting period.
** Year 2010 target: increase the proportion of mothers who breastfeed their babies at 6 months to 50%.

Figure 17

South Dakota PedNSS
Percentage of Infants Breastfed at Least 12 Months*
by Race

* Among infants who turned 12 months of age during the reporting period.
** Increase the proportion of mothers who breastfeed their babies at 1 year to 25%.

The percent of infants in the South Dakota PedNSS population that were breastfed at least 6 months in 2004 was 19.4 percent. This is a decrease from the 2003 rate of 22.0 percent. The three-year rate for the 2002 through 2004 PedNSS population was 18.4. In the United States PedNSS population, the percent of infants that were breastfed at least 6 months was 21.5 percent in calendar year 2003.

The percent of South Dakota PedNSS infant's breastfed at least 6 months by race or ethnicity in 2004 was:
- 20.2 percent for whites
- 16.5 percent for American Indians and Alaskan Natives.

The percent of infants in the South Dakota PedNSS population that were breastfed at least 12 months in 2004 was 12.0 percent. This is a decrease from the 2003 rate of 13.1 percent. The three-year rate for the 2002 through 2004 PedNSS population was 10.5. In the United States PedNSS population the percent of infants that were breastfed at least 12 months was 13.6 percent in calendar year 2003.

The percent of South Dakota PedNSS infant's breastfed at least 12 months by race or ethnicity in 2004 was:
- 11.8 percent for whites
- 11.5 percent for American Indians and Alaskan Natives.

Table 19

Pediatric Nutrition Surveillance System
Ever Breastfed
Reporting Period 01/01/2004 to 12/31/2004

County	2004 Data Ever Breastfed (9)			Three Year Data (2002-2004) Ever Breastfed (9)		
Clinic	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Aurora	**10**	*	*	**45**	*	*
Plankinton	10	*	*	45	*	*
Beadle	**132**	**69.7%**	**12.0%**	**374**	**63.4%**	**6.8%**
Huron	132	69.7%	12.0%	374	63.4%	6.8%
Bennett	**45**	*	*	**146**	**54.1%**	**10.0%**
Martin	45	*	*	146	54.1%	10.0%
Bon Homme	**24**	*	*	**105**	**30.5%**	**8.9%**
Tyndall	24	*	*	105	30.5%	8.9%
Brookings	**131**	**70.2%**	**12.0%**	**410**	**66.1%**	**6.6%**
Brookings	131	70.2%	12.0%	410	66.1%	6.6%
Brown	**192**	**51.6%**	**8.5%**	**659**	**47.5%**	**4.4%**
Aberdeen	192	51.6%	8.5%	659	47.5%	4.4%
Brule	**20**	*	*	**76**	*	*
Chamberlain	15	*	*	60	*	*
Kimball	5	*	*	16	*	*
Buffalo	**50**	*	*	**163**	**27.0%**	**6.7%**
Ft. Thompson	50	*	*	163	27.0%	6.7%
Butte	**82**	*	*	**242**	**33.5%**	**6.1%**
Belle Fourche	77	*	*	211	35.1%	6.7%
Newell	5	*	*	31	*	*
Charles Mix	**129**	**63.6%**	**11.6%**	**363**	**57.0%**	**6.5%**
Lake Andes	33	*	*	102	52.9%	11.8%
Platte	13	*	*	33	*	*
Wagner	83	*	*	228	55.7%	8.1%
Clark	**16**	*	*	**50**	*	*
Clark	16	*	*	50	*	*
Clay	**67**	*	*	**230**	**59.1%**	**8.3%**
Vermillion	67	*	*	230	59.1%	8.3%
Codington	**196**	**50.5%**	**8.3%**	**575**	**48.9%**	**4.8%**
Watertown	196	50.5%	8.3%	575	48.9%	4.8%
Corson	**#**	*	*	**6**	*	*
McLaughlin	#	*	*	6	*	*
Custer	**23**	*	*	**89**	*	*
Custer	23	*	*	89	*	*
Davison	**147**	**44.2%**	**9.0%**	**445**	**48.8%**	**5.4%**
Mitchell	147	44.2%	9.0%	445	48.8%	5.4%
Day	**26**	*	*	**109**	**52.3%**	**11.4%**
Webster	26	*	*	109	52.3%	11.4%
Deuel	**16**	*	*	**47**	*	*
Clear Lake	16	*	*	47	*	*

Shaded rows indicate the three-year data are significantly lower than the state three-year data at the 0.05 level.
 (9) Percent of infants born during the reporting period that were ever breastfed.
* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of
     reliability or precision.
South Dakota Department of Health policy does not permit releasing data with fewer than three events.

Table 19 (Continued)

Pediatric Nutrition Surveillance System
Ever Breastfed
Reporting Period 01/01/2004 to 12/31/2004

County	2004 Data Ever Breastfed (9)			Three Year Data (2002-2004) Ever Breastfed (9)		
Clinic	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Dewey	**16**	*	*	**53**	*	*
Isabel	7	*	*	16	*	*
Timber Lake	9	*	*	37	*	*
Douglas	**12**	*	*	**35**	*	*
Armour	12	*	*	35	*	*
Edmunds	**12**	*	*	**36**	*	*
Bowdle	9	*	*	22	*	*
Ipswich	3	*	*	14	*	*
Fall River	**59**	*	*	**167**	**60.5%**	**9.9%**
Hot Springs	59	*	*	167	60.5%	9.9%
Faulk	**7**	*	*	**22**	*	*
Faulkton	7	*	*	22	*	*
Grant	**34**	*	*	**133**	**51.9%**	**10.3%**
Milbank	34	*	*	133	51.9%	10.3%
Gregory	**26**	*	*	**77**	*	*
Bonesteel	9	*	*	17	*	*
Burke	17	*	*	60	*	*
Haakon	**5**	*	*	**25**	*	*
Philip	5	*	*	25	*	*
Hamlin	**28**	*	*	**116**	**76.7%**	**13.4%**
Hayti	28	*	*	116	76.7%	13.4%
Hand	**16**	*	*	**47**	*	*
Miller	16	*	*	47	*	*
Hanson	**17**	*	*	**58**	*	*
Alexandria	17	*	*	58	*	*
Harding	**3**	*	*	**14**	*	*
Buffalo	3	*	*	14	*	*
Hughes	**89**	*	*	**362**	**44.2%**	**5.7%**
Pierre	89	*	*	362	44.2%	5.7%
Hutchinson	**24**	*	*	**82**	*	*
Freeman	15	*	*	46	*	*
Parkston	9	*	*	36	*	*
Hyde	**8**	*	*	**25**	*	*
Highmore	8	*	*	25	*	*
Jackson	**40**	*	*	**141**	**41.1%**	**8.9%**
Kadoka	14	*	*	29	*	*
Wanblee	26	*	*	112	38.4%	9.6%
Jerauld	**8**	*	*	**27**	*	*
Wessington Springs	8	*	*	27	*	*
Jones	**7**	*	*	**30**	*	*
Murdo	7	*	*	30	*	*

Shaded rows indicate the three-year data are significantly lower than the state three-year data at the 0.05 level.
 (9) Percent of infants born during the reporting period that were ever breastfed.
*   Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 19 (Continued)

Pediatric Nutrition Surveillance System
Ever Breastfed
Reporting Period 01/01/2004 to 12/31/2004

County	2004 Data Ever Breastfed (9)			Three Year Data (2002-2004) Ever Breastfed (9)		
Clinic	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Kingsbury	**4**	*	*	**26**	*	*
De Smet	4	*	*	26	*	*
Lake	**48**	*	*	**167**	**61.7%**	**10.0%**
Madison	48	*	*	167	61.7%	10.0%
Lawrence	**121**	**58.7%**	**11.5%**	**411**	**60.3%**	**6.3%**
Deadwood	30	*	*	125	52.8%	10.7%
Spearfish	91	*	*	286	63.6%	7.8%
Lincoln	**27**	*	*	**96**	*	*
Canton	27	*	*	96	*	*
Lyman	**47**	*	*	**157**	**48.4%**	**9.1%**
Kennebec	5	*	*	22	*	*
Lower Brule	42	*	*	135	46.7%	9.7%
Marshall	**12**	*	*	**36**	*	*
Britton	12	*	*	36	*	*
McCook	**30**	*	*	**88**	*	*
Salem	30	*	*	88	*	*
McPherson	**4**	*	*	**27**	*	*
Eureka	#	*	*	15	*	*
Leola	#	*	*	12	*	*
Meade	**85**	*	*	**288**	**53.1%**	**7.1%**
Faith	7	*	*	30	*	*
Sturgis	78	*	*	258	53.9%	7.5%
Miner	**9**	*	*	**27**	*	*
Howard	9	*	*	27	*	*
Minnehaha	**1,128**	**56.3%**	**3.7%**	**3,584**	**55.6%**	**2.0%**
Sioux Falls	1,128	56.3%	3.7%	3,584	55.6%	2.0%
Moody	**35**	*	*	**116**	**54.3%**	**11.3%**
Flandreau	35	*	*	116	54.3%	11.3%
Pennington	**1,015**	**62.4%**	**4.1%**	**3,397**	**61.8%**	**2.2%**
Ellsworth	137	73.0%	12.0%	493	72.0%	6.3%
Hill City	27	*	*	61	*	*
Rapid City	845	60.2%	4.4%	2,819	59.8%	2.4%
Wall	6	*	*	24	*	*
Perkins	**16**	*	*	**61**	*	*
Bison	5	*	*	18	*	*
Lemmon	11	*	*	43	*	*

Shaded rows indicate the three-year data are significantly lower than the state three-year data at the 0.05 level.
 (9) Percent of infants born during the reporting period that were ever breastfed.
*   Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of
     reliability or precision.
South Dakota Department of Health policy does not permit releasing data with fewer than three events.

Table 19 (Continued)

Pediatric Nutrition Surveillance System
Ever Breastfed
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Ever Breastfed (9)			Three Year Data (2002-2004) Ever Breastfed (9)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Potter	**9**	*	*	**36**	*	*
Hoven	9	*	*	36	*	*
Roberts	**140**	**41.4%**	**8.9%**	**381**	**43.8%**	**5.6%**
Sisseton	140	41.4%	8.9%	381	43.8%	5.6%
Sanborn	**7**	*	*	**40**	*	*
Woonsocket	7	*	*	40	*	*
Shannon	**341**	**55.1%**	**6.6%**	**1,106**	**50.8%**	**3.5%**
Kyle	86	*	*	278	52.2%	7.1%
Manderson	33	*	*	89	*	*
Pine Ridge	195	53.3%	8.6%	634	50.5%	4.6%
Porcupine	27	*	*	105	48.6%	11.2%
Spink	**28**	*	*	**104**	**57.7%**	**12.3%**
Redfield	28	*	*	104	57.7%	12.3%
Stanley	**25**	*	*	**82**	*	*
Ft. Pierre	25	*	*	82	*	*
Sully	**#**	*	*	**11**	*	*
Onida	#	*	*	11	*	*
Tripp	**52**	*	*	**148**	**33.1%**	**7.8%**
Winner	52	*	*	148	33.1%	7.8%
Turner	**22**	*	*	**86**	*	*
Parker	12	*	*	39	*	*
Viborg	10	*	*	47	*	*
Union	**35**	*	*	**142**	**44.4%**	**9.2%**
Elk Point	35	*	*	142	44.4%	9.2%
Walworth	**29**	*	*	**131**	**55.0%**	**10.7%**
Mobridge	#	*	*	116	53.4%	11.2%
Selby	#	*	*	15	*	*
Yankton	**122**	**51.6%**	**10.7%**	**440**	**46.6%**	**5.4%**
Yankton	122	51.6%	10.7%	440	46.6%	5.4%
Ziebach	**4**	*	*	**22**	*	*
Dupree	4	*	*	22	*	*
Healthy People 2010		**75%**			**75%**	
Statewide PedNSS	**5,116**	**56.8%**	**1.7%**	**16,794**	**54.4%**	**0.9%**
National 2003		**53.2%**				

Shaded rows indicate the three-year data are significantly lower than the state three-year data at the 0.05 level.
 (9) Percent of infants born during the reporting period that were ever breastfed.
*   Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of
     reliability or precision.
South Dakota Department of Health policy does not permit releasing data with fewer than three events.

Table 20

Pediatric Nutrition Surveillance System
Ever Breastfed
Reporting Period 01/01/2004 to 12/31/2004

County**	2004 Data Ever Breastfed (9)			Three Year Data (2002-2004) Ever Breastfed (9)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Aberdeen Area	230	50.4%	7.7%	804	47.4%	4.0%
East Central	198	68.2%	9.7%	668	65.6%	5.2%
Huron-Redfield	160	70.0%	10.9%	478	62.1%	5.9%
Mitchell-Chamberlain	209	46.4%	7.8%	691	48.5%	4.4%
Northern Black Hills	206	57.8%	8.7%	699	57.4%	4.7%
Northeast Area	402	49.0%	5.7%	1,186	48.4%	3.3%
North Central	54	*	*	222	51.4%	7.9%
Northwest Area	121	42.1%	9.7%	392	40.3%	5.3%
Oahe Area	149	53.0%	9.8%	563	48.8%	4.8%
Pickstown Area	215	60.5%	8.7%	662	51.2%	4.6%
Pine Ridge Area	426	54.0%	5.9%	1,393	50.2%	3.1%
Rapid City Area	1,015	62.4%	4.1%	3,397	61.8%	2.2%
Southeast Area	224	55.4%	8.2%	812	49.8%	4.1%
Sioux Falls Area	1,128	56.3%	3.7%	3,584	55.6%	2.0%
Sioux Empire Area	136	64.7%	11.3%	464	57.5%	5.8%
South Central	161	41.0%	8.3%	523	39.2%	4.5%
Southern Black Hills	82	*	*	256	64.5%	8.3%
Healthy People 2010		**75.0%**			**75.0%**	
Statewide PedNSS	**5,116**	**56.8%**	**1.7%**	**16,794**	**54.4%**	**0.9%**
National 2003		**53.2%**				

Shaded rows indicate the three-year data are significantly lower than the state three-year data at the 0.05 level.
 (9) Percent of infants born during the reporting period that were ever breastfed.
* Data from regions with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.
** Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

Table 21

Pediatric Nutrition Surveillance System
Breastfed at 6 Months of Age
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Breastfed at Least 6 Months(10)			Three Year Data (2002-2004) Breastfed at Least 6 Months(10)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Aurora	**9**	*	*	**37**	*	*
Plankinton	9	*	*	37	*	*
Beadle	**65**	*	*	**286**	**20.6%**	**4.4%**
Huron	65	*	*	286	20.6%	4.4%
Bennett	**30**	*	*	**120**	**29.2%**	**8.1%**
Martin	30	*	*	120	29.2%	8.1%
Bon Homme	**25**	*	*	**92**	*	*
Tyndall	25	*	*	92	*	*
Brookings	**71**	*	*	**305**	**25.6%**	**4.8%**
Brookings	71	*	*	305	25.6%	4.8%
Brown	**131**	**20.6%**	**6.5%**	**499**	**17.2%**	**3.1%**
Aberdeen	131	20.6%	6.5%	499	17.2%	3.1%
Brule	**13**	*	*	**59**	*	*
Chamberlain	10	*	*	47	*	*
Kimball	3	*	*	12	*	*
Buffalo	**47**	*	*	**139**	**7.9%**	**3.9%**
Ft. Thompson	47	*	*	139	7.9%	3.9%
Butte	**53**	*	*	**203**	**23.2%**	**5.6%**
Belle Fourche	45	*	*	170	22.9%	6.0%
Newell	8	*	*	33	*	*
Charles Mix	**66**	*	*	**273**	**13.2%**	**3.6%**
Lake Andes	18	*	*	86	*	*
Platte	5	*	*	24	*	*
Wagner	43	*	*	163	12.9%	4.6%
Clark	**14**	*	*	**48**	*	*
Clark	14	*	*	48	*	*
Clay	**36**	*	*	**165**	**23.0%**	**6.1%**
Vermillion	36	*	*	165	23.0%	6.1%
Codington	**92**	*	*	**424**	**14.9%**	**3.1%**
Watertown	92	*	*	424	14.9%	3.1%
Corson	**#**	*	*	**5**	*	*
McLaughlin	#	*	*	5	*	*
Custer	**18**	*	*	**68**	*	*
Custer	18	*	*	68	*	*
Davison	**64**	*	*	**309**	**12.9%**	**3.4%**
Mitchell	64	*	*	309	12.9%	3.4%
Day	**20**	*	*	**97**	*	*
Webster	20	*	*	97	*	*
Deuel	**9**	*	*	**34**	*	*
Clear Lake	9	*	*	34	*	*

Shaded rows indicate the three-year data are significantly lower than the state three-year data at the 0.05 level.
(10) Percent of infants who turned 6 months of age during the reporting period by/on their date of visit and were breastfed at least 6 months.
*   Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.
# South Dakota Department of Health policy does not permit releasing data with fewer than three events.

Table 21 (Continued)

Pediatric Nutrition Surveillance System
Breastfed at 6 Months of Age
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Breastfed at Least 6 Months(10)			Three Year Data (2002-2004) Breastfed at Least 6 Months(10)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Dewey	**6**	*	*	**36**	*	*
Isabel	3	*	*	10	*	*
Timber Lake	3	*	*	26	*	*
Douglas	**3**	*	*	**25**	*	*
Armour	3	*	*	25	*	*
Edmunds	**7**	*	*	**26**	*	*
Bowdle	4	*	*	14	*	*
Ipswich	3	*	*	12	*	*
Fall River	**36**	*	*	**126**	**17.5%**	**6.1%**
Hot Springs	36	*	*	126	17.5%	6.1%
Faulk	**5**	*	*	**15**	*	*
Faulkton	5	*	*	15	*	*
Grant	**25**	*	*	**112**	**14.3%**	**5.9%**
Milbank	25	*	*	112	14.3%	5.9%
Gregory	**15**	*	*	**66**	*	*
Bonesteel	#	*	*	12	*	*
Burke	#	*	*	54	*	*
Haakon	**3**	*	*	**25**	*	*
Philip	3	*	*	25	*	*
Hamlin	**31**	*	*	**95**	*	*
Hayti	31	*	*	95	*	*
Hand	**5**	*	*	**29**	*	*
Miller	5	*	*	29	*	*
Hanson	**11**	*	*	**48**	*	*
Alexandria	11	*	*	48	*	*
Harding	**#**	*	*	**9**	*	*
Buffalo	#	*	*	9	*	*
Hughes	**70**	*	*	**289**	**10.0%**	**3.1%**
Pierre	70	*	*	289	10.0%	3.1%
Hutchinson	**7**	*	*	**73**	*	*
Freeman	#	*	*	40	*	*
Parkston	#	*	*	33	*	*
Hyde	**4**	*	*	**23**	*	*
Highmore	4	*	*	23	*	*
Jackson	**26**	*	*	**124**	**18.5%**	**6.4%**
Kadoka	3	*	*	22	*	*
Wanblee	23	*	*	102	20.6%	7.4%
Jerauld	**8**	*	*	**28**	*	*
Wessington Springs	8	*	*	28	*	*
Jones	**5**	*	*	**27**	*	*
Murdo	5	*	*	27	*	*

Shaded rows indicate the three-year data are significantly lower than the state three-year data at the 0.05 level.
 (10) Percent of infants who turned 6 months of age during the reporting period by/on their date of visit and were breastfed at least 6 months.
* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.
# South Dakota Department of Health policy does not permit releasing data with fewer than three events.

Table 21 (Continued)

Pediatric Nutrition Surveillance System
Breastfed at 6 Months of Age
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Breastfed at Least 6 Months(10)			Three Year Data (2002-2004) Breastfed at Least 6 Months(10)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Kingsbury	**#**	*	*	**20**	*	*
De Smet	#	*	*	20	*	*
Lake	**30**	*	*	**134**	**15.7%**	**5.6%**
Madison	30	*	*	134	15.7%	5.6%
Lawrence	**77**	*	*	**311**	**25.7%**	**4.7%**
Deadwood	25	*	*	102	14.7%	6.2%
Spearfish	52	*	*	209	31.1%	6.3%
Lincoln	**18**	*	*	**75**	*	*
Canton	18	*	*	75	*	*
Lyman	**36**	*	*	**134**	**15.7%**	**5.6%**
Kennebec	6	*	*	19	*	*
Lower Brule	30	*	*	115	15.7%	6.1%
Marshall	**9**	*	*	**29**	*	*
Britton	9	*	*	29	*	*
McCook	**17**	*	*	**63**	*	*
Salem	17	*	*	63	*	*
McPherson	**7**	*	*	**25**	*	*
Eureka	5	*	*	15	*	*
Leola	2	*	*	10	*	*
Meade	**53**	*	*	**246**	**18.3%**	**4.5%**
Faith	3	*	*	27	*	*
Sturgis	50	*	*	219	15.5%	4.4%
Miner	**5**	*	*	**21**	*	*
Howard	5	*	*	21	*	*
Minnehaha	**587**	**16.7%**	**2.8%**	**2,386**	**16.3%**	**1.4%**
Sioux Falls	587	16.7%	2.8%	2,386	16.3%	1.4%
Moody	**22**	*	*	**89**	*	*
Flandreau	22	*	*	89	*	*
Pennington	**597**	**20.4%**	**3.0%**	**2,498**	**20.7%**	**1.5%**
Ellsworth	64	*	*	331	22.7%	4.3%
Hill City	#	*	*	42	*	*
Rapid City	521	20.0%	3.2%	2,107	20.1%	1.6%
Wall	#	*	*	18	*	*
Perkins	**8**	*	*	**49**	*	*
Bison	#	*	*	13	*	*
Lemmon	#	*	*	36	*	*

Shaded rows indicate the three-year data are significantly lower than the state three-year data at the 0.05 level.
(10) Percent of infants who turned 6 months of age during the reporting period by/on their date of visit and were breastfed at least 6 months.
* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.
# South Dakota Department of Health policy does not permit releasing data with fewer than three events.

Table 21 (Continued)

Pediatric Nutrition Surveillance System
Breastfed at 6 Months of Age
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Breastfed at Least 6 Months(10)			Three Year Data (2002-2004) Breastfed at Least 6 Months(10)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Potter	**6**	*	*	**34**	*	*
Hoven	6	*	*	34	*	*
Roberts	**64**	*	*	**282**	**14.9%**	**3.8%**
Sisseton	64	*	*	282	14.9%	3.8%
Sanborn	**3**	*	*	**27**	*	*
Woonsocket	3	*	*	27	*	*
Shannon	**203**	**23.6%**	**5.6%**	**811**	**22.1%**	**2.7%**
Kyle	46	*	*	214	21.0%	5.2%
Manderson	9	*	*	55	*	*
Pine Ridge	130	23.8%	7.0%	458	22.3%	3.6%
Porcupine	18	*	*	84	*	*
Spink	**15**	*	*	**82**	*	*
Redfield	15	*	*	82	*	*
Stanley	**16**	*	*	**72**	*	*
Ft. Pierre	16	*	*	72	*	*
Sully	**#**	*	*	**13**	*	*
Onida	#	*	*	13	*	*
Tripp	**25**	*	*	**108**	**9.3%**	**4.8%**
Winner	25	*	*	108	9.3%	4.8%
Turner	**16**	*	*	**66**	*	*
Parker	7	*	*	30	*	*
Viborg	9	*	*	36	*	*
Union	**28**	*	*	**111**	**14.4%**	**5.9%**
Elk Point	28	*	*	111	14.4%	5.9%
Walworth	**32**	*	*	**107**	**18.7%**	**6.9%**
Mobridge	26	*	*	92	*	*
Selby	6	*	*	15	*	*
Yankton	**98**	*	*	**364**	**16.2%**	**3.5%**
Yankton	98	*	*	364	16.2%	3.5%
Ziebach	**8**	*	*	**24**	*	*
Dupree	8	*	*	24	*	*
Healthy People 2010		**50%**			**50%**	
Statewide PedNSS	**3,014**	**19.4%**	**1.3%**	**12,520**	**18.4%**	**0.6%**
National 2003		**21.5%**				

Shaded rows indicate the three-year data are significantly lower than the state three-year data at the 0.05 level.
 (10) Percent of infants who turned 6 months of age during the reporting period by/on their date of visit and were breastfed at least 6 months.
*   Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.
# South Dakota Department of Health policy does not permit releasing data with fewer than three events.

Table 22

Pediatric Nutrition Surveillance System
Breastfed at 6 Months of Age
Reporting Period 01/01/2004 to 12/31/2004

Region**	2004 Data Breastfed at Least 6 Months(10)			Three Year Data (2002-2004) Breastfed at Least 6 Months(10)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Aberdeen Area	160	20.0%	5.8%	625	18.1%	2.8%
East Central	126	31.0%	8.2%	509	27.9%	3.9%
Huron-Redfield	80	*	*	368	20.4%	3.9%
Mitchell-Chamberlain	108	15.7%	6.3%	508	15.0%	2.8%
Northern Black Hills	130	25.4%	7.3%	557	22.4%	3.3%
Northeast Area	204	14.7%	4.4%	900	15.0%	2.1%
North Central	51	*	*	178	22.5%	5.8%
Northwest Area	76	*	*	321	21.8%	4.3%
Oahe Area	102	20.6%	7.4%	460	13.0%	2.8%
Pickstown Area	116	14.7%	5.9%	529	13.4%	2.6%
Pine Ridge Area	259	23.6%	5.0%	1,055	22.5%	2.4%
Rapid City Area	597	20.4%	3.0%	2,498	20.7%	1.5%
Southeast Area	162	18.5%	5.6%	640	17.7%	2.7%
Sioux Falls Area	587	16.7%	2.8%	2,386	16.3%	1.4%
Sioux Empire Area	86	*	*	359	16.7%	3.5%
South Central	116	12.9%	5.5%	433	12.2%	2.8%
Southern Black Hills	54	*	*	194	18.0%	5.0%
Healthy People 2010		**50.0%**			**50.0%**	
Statewide PedNSS	**3,014**	**19.4%**	**1.3%**	**12,520**	**18.4%**	**0.6%**
National 2003		**21.5%**				

Shaded rows indicate the three-year data are significantly lower than the state three-year data at the 0.05 level.
(10) Percent of infants who turned 6 months of age during the reporting period by/on their date of visit and were breastfed at least 6 months.
* Data from regions with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.
** Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

Table 23

Pediatric Nutrition Surveillance System
Breastfed at 12 Months of Age
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Breastfed at Least 12 Months(11)			Three Year Data (2002-2004) Breastfed at Least 12 Months(11)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Aurora	**7**	*	*	**34**	*	*
Plankinton	7	*	*	34	*	*
Beadle	**39**	*	*	**227**	**6.6%**	**2.8%**
Huron	39	*	*	227	6.6%	2.8%
Bennett	**19**	*	*	**106**	**17.0%**	**6.6%**
Martin	19	*	*	106	17.0%	6.6%
Bon Homme	**17**	*	*	**80**	*	*
Tyndall	17	*	*	80	*	*
Brookings	**59**	*	*	**242**	**14.9%**	**4.1%**
Brookings	59	*	*	242	14.9%	4.1%
Brown	**85**	*	*	**359**	**8.6%**	**2.5%**
Aberdeen	85	*	*	359	8.6%	2.5%
Brule	**13**	*	*	**59**	*	*
Chamberlain	#	*	*	48	*	*
Kimball	#	*	*	11	*	*
Buffalo	**31**	*	*	**126**	**4.8%**	**3.2%**
Ft. Thompson	31	*	*	126	4.8%	3.2%
Butte	**37**	*	*	**159**	**21.4%**	**6.0%**
Belle Fourche	28	*	*	134	21.6%	6.6%
Newell	9	*	*	25	*	*
Charles Mix	**53**	*	*	**246**	**6.5%**	**2.7%**
Lake Andes	15	*	*	78	*	*
Platte	5	*	*	22	*	*
Wagner	33	*	*	146	5.5%	3.2%
Clark	**6**	*	*	**40**	*	*
Clark	6	*	*	40	*	*
Clay	**27**	*	*	**133**	**12.8%**	**5.1%**
Vermillion	27	*	*	133	12.8%	5.1%
Codington	**75**	*	*	**328**	**7.6%**	**2.5%**
Watertown	75	*	*	328	7.6%	2.5%
Corson	**#**	*	*	**6**	*	*
McLaughlin	#	*	*	6	*	*
Custer	**12**	*	*	**51**	*	*
Custer	12	*	*	51	*	*
Davison	**57**	*	*	**251**	**4.4%**	**2.2%**
Mitchell	57	*	*	251	4.4%	2.2%
Day	**18**	*	*	**84**	*	*
Webster	18	*	*	84	*	*
Deuel	**9**	*	*	**27**	*	*
Clear Lake	9	*	*	27	*	*

Shaded rows indicate the three-year data are significantly lower than the state three-year data at the 0.05 level.

(11) Percent of children who turned 12 months of age during the reporting period by/on their date of visit and were breastfed at least 12 months.

* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

\# South Dakota Department of Health policy does not permit releasing data with fewer than three events.

Table 23 (Continued)

Pediatric Nutrition Surveillance System
Breastfed at 12 Months of Age
Reporting Period 01/01/2004 to 12/31/2004

County Clinic	2004 Data Breastfed at Least 12 Months(11)			Three Year Data (2002-2004) Breastfed at Least 12 Months(11)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Dewey	**12**	*	*	**34**	*	*
Isabel	3	*	*	9	*	*
Timber Lake	9	*	*	25	*	*
Douglas	**4**	*	*	**22**	*	*
Armour	4	*	*	22	*	*
Edmunds	**3**	*	*	**24**	*	*
Bowdle	#	*	*	18	*	*
Ipswich	#	*	*	6	*	*
Fall River	**27**	*	*	**84**	*	*
Hot Springs	27	*	*	84	*	*
Faulk	**7**	*	*	**22**	*	*
Faulkton	7	*	*	22	*	*
Grant	**18**	*	*	**91**	*	*
Milbank	18	*	*	91	*	*
Gregory	**13**	*	*	**51**	*	*
Bonesteel	#	*	*	9	*	*
Burke	#	*	*	42	*	*
Haakon	**4**	*	*	**25**	*	*
Philip	4	*	*	25	*	*
Hamlin	**19**	*	*	**74**	*	*
Hayti	19	*	*	74	*	*
Hand	**11**	*	*	**30**	*	*
Miller	11	*	*	30	*	*
Hanson	**9**	*	*	**47**	*	*
Alexandria	9	*	*	47	*	*
Harding	**#**	*	*	**8**	*	*
Buffalo	#	*	*	8	*	*
Hughes	**59**	*	*	**218**	**5.5%**	**2.6%**
Pierre	59	*	*	218	5.5%	2.6%
Hutchinson	**13**	*	*	**64**	*	*
Freeman	6	*	*	34	*	*
Parkston	7	*	*	30	*	*
Hyde	**7**	*	*	**23**	*	*
Highmore	7	*	*	23	*	*
Jackson	**20**	*	*	**111**	**10.8%**	**5.1%**
Kadoka	3	*	*	20	*	*
Wanblee	17	*	*	91	*	*
Jerauld	**10**	*	*	**20**	*	*
Wessington Springs	10	*	*	20	*	*
Jones	**6**	*	*	**23**	*	*
Murdo	6	*	*	23	*	*

Shaded rows indicate the three-year data are significantly lower than the state three-year data at the 0.05 level.
 (11) Percent of children who turned 12 months of age during the reporting period by/on their date of visit and were breastfed
     at least 12 months.
*   Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of
     reliability or precision.
South Dakota Department of Health policy does not permit releasing data with fewer than three events.

Table 23 (Continued)

Pediatric Nutrition Surveillance System
Breastfed at 12 Months of Age
Reporting Period 01/01/2004 to 12/31/2004

County	2004 Data Breastfed at Least 12 Months(11)			Three Year Data (2002-2004) Breastfed at Least 12 Months(11)		
Clinic	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Kingsbury	**3**	*	*	**23**	*	*
De Smet	3	*	*	23	*	*
Lake	**26**	*	*	**83**	*	*
Madison	26	*	*	83	*	*
Lawrence	**46**	*	*	**225**	**17.8%**	**4.6%**
Deadwood	11	*	*	73	*	*
Spearfish	35	*	*	152	22.4%	6.3%
Lincoln	**10**	*	*	**63**	*	*
Canton	10	*	*	63	*	*
Lyman	**30**	*	*	**118**	**11.0%**	**5.0%**
Kennebec	5	*	*	17	*	*
Lower Brule	25	*	*	101	12.9%	5.9%
Marshall	**6**	*	*	**26**	*	*
Britton	6	*	*	26	*	*
McCook	**16**	*	*	**41**	*	*
Salem	16	*	*	41	*	*
McPherson	**#**	*	*	**19**	*	*
Eureka	#	*	*	13	*	*
Leola	#	*	*	6	*	*
Meade	**45**	*	*	**199**	**12.1%**	**4.1%**
Faith	9	*	*	26	*	*
Sturgis	36	*	*	173	11.0%	4.1%
Miner	**3**	*	*	**19**	*	*
Howard	3	*	*	19	*	*
Minnehaha	**407**	**10.3%**	**2.6%**	**1,638**	**9.6%**	**1.3%**
Sioux Falls	407	10.3%	2.6%	1,638	9.6%	1.3%
Moody	**17**	*	*	**70**	*	*
Flandreau	17	*	*	70	*	*
Pennington	**490**	**12.7%**	**2.6%**	**2,001**	**11.3%**	**1.2%**
Ellsworth	61	*	*	267	12.7%	3.6%
Hill City	10	*	*	37	*	*
Rapid City	413	12.8%	2.9%	1,678	11.2%	1.3%
Wall	6	*	*	19	*	*
Perkins	**8**	*	*	**47**	*	*
Bison	#	*	*	14	*	*
Lemmon	#	*	*	33	*	*

Shaded rows indicate the three-year data are significantly lower than the state three-year data at the 0.05 level.
(11) Percent of children who turned 12 months of age during the reporting period by/on their date of visit and were breastfed
   at least 12 months.
*   Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of
   reliability or precision.
South Dakota Department of Health policy does not permit releasing data with fewer than three events.

Table 23 (Continued)

Pediatric Nutrition Surveillance System
Breastfed at 12 Months of Age
Reporting Period 01/01/2004 to 12/31/2004

County	2004 Data Breastfed at Least 12 Months(11)			Three Year Data (2002-2004) Breastfed at Least 12 Months(11)		
Clinic	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Potter	**11**	*	*	**28**	*	*
Hoven	11	*	*	28	*	*
Roberts	**59**	*	*	**242**	**9.5%**	**3.3%**
Sisseton	59	*	*	242	9.5%	3.3%
Sanborn	**4**	*	*	**22**	*	*
Woonsocket	4	*	*	22	*	*
Shannon	**169**	**18.3%**	**5.4%**	**656**	**16.2%**	**2.6%**
Kyle	50	*	*	180	16.7%	5.0%
Manderson	15	*	*	49	*	*
Pine Ridge	94	*	*	363	14.6%	3.3%
Porcupine	10	*	*	64	*	*
Spink	**20**	*	*	**73**	*	*
Redfield	20	*	*	73	*	*
Stanley	**15**	*	*	**57**	*	*
Ft. Pierre	15	*	*	57	*	*
Sully	**4**	*	*	**10**	*	*
Onida	4	*	*	10	*	*
Tripp	**21**	*	*	**82**	*	*
Winner	21	*	*	82	*	*
Turner	**9**	*	*	**43**	*	*
Parker	3	*	*	21	*	*
Viborg	6	*	*	22	*	*
Union	**11**	*	*	**69**	*	*
Elk Point	11	*	*	69	*	*
Walworth	**15**	*	*	**82**	*	*
Mobridge	#	*	*	73	*	*
Selby	#	*	*	9	*	*
Yankton	**66**	*	*	**266**	**7.9%**	**2.8%**
Yankton	66	*	*	266	7.9%	2.8%
Ziebach	**3**	*	*	**21**	*	*
Dupree	3	*	*	21	*	*
Healthy People 2010		**25%**			**25%**	
Statewide PedNSS	**2,325**	**12.0%**	**1.2%**	**9,752**	**10.5%**	**0.5%**
National 2003		**13.6%**				

Shaded rows indicate the three-year data are significantly lower than the state three-year data at the 0.05 level.
(11) Percent of children who turned 12 months of age during the reporting period by/on their date of visit and were breastfed at least 12 months.
*   Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.
# South Dakota Department of Health policy does not permit releasing data with fewer than three events.

Table 24

Pediatric Nutrition Surveillance System
Breastfed at 12 Months of Age
Reporting Period 01/01/2004 to 12/31/2004

Region**	2004 Data Breastfed at Least 12 Months(11)			Three Year Data (2002-2004) Breastfed at Least 12 Months(11)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Aberdeen Area	109	11.0%	5.2%	469	9.6%	2.4%
East Central	98	*	*	409	16.9%	3.3%
Huron-Redfield	59	*	*	300	7.0%	2.5%
Mitchell-Chamberlain	100	10.0%	5.2%	433	5.8%	1.9%
Northern Black Hills	91	*	*	424	15.1%	3.1%
Northeast Area	167	6.6%	3.3%	728	8.2%	1.7%
North Central	28	*	*	153	9.2%	4.0%
Northwest Area	62	*	*	269	16.0%	4.0%
Oahe Area	107	9.3%	4.8%	366	6.6%	2.2%
Pickstown Area	100	8.0%	4.7%	463	7.3%	2.1%
Pine Ridge Area	208	18.8%	4.9%	873	15.6%	2.2%
Rapid City Area	490	12.7%	2.6%	2,001	11.3%	1.2%
Southeast Area	104	13.5%	5.9%	468	9.0%	2.3%
Sioux Falls Area	407	10.3%	2.6%	1,638	9.6%	1.3%
Sioux Empire Area	64	*	*	249	8.0%	2.9%
South Central	92	*	*	374	7.2%	2.3%
Southern Black Hills	39	*	*	135	11.9%	4.9%
Healthy People 2010		**25.0%**			**25.0%**	
Statewide PedNSS	**2,325**	**12.0%**	**1.2%**	**9,752**	**10.5%**	**0.5%**
National 2003		**13.6%**				

Shaded rows indicate the three-year data are significantly lower than the state three-year data at the 0.05 level.
(11) Percent of children who turned 12 months of age during the reporting period by/on their date of visit and were breastfed at least 12 months.
*   Data from regions with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.
** Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

Table 14

Pediatric Nutrition Surveillance System
Statewide Summary of Indicators by Age and Race/Ethnicity
Reporting Period 01/01/2004 to 12/31/2004

Age	Birth weight			Height and Weight				≥ 2 Years Overweight			Anemia		Breastfeeding		
					Short Stature	Under Weight	Over Weight		At Risk %>85th	Over %≤95th			Duration		
	Number	Low %<250	High %>400	Number	%<5th	%<5th	%>95th	Number	& <95th		Number	% Low	Ever	6+ Mo.	12+ Mo.
White															
< 1 Year	3,515	8.0%	7.9%	5,440	10.0%	3.8%	10.0%	-	-	-	2,325	10.5%	Breastfeeding data is for		
1 Year				2,519	5.9%	3.6%	15.2%	-	-	-	2,728	7.8%	ages through 23 months		
2-4 Years				5,792	4.5%	2.6%	12.0%	5,792	16.6%	12.0%	4,734	4.8%			
Total				13,751	6.9%	3.3%	11.8%	5,792	16.6%	12.0%	9,787	7.0%	59.4%	20.2%	11.8%
Black															
< 1 Year	154	6.5%	6.5%	236	9.3%	3.0%	11.9%	-	-	-	97	*	Breastfeeding data is for		
1 Year				95	*	*	*	-	-	-	106	*	ages through 23 months		
2-4 Years				257	5.8%	5.1%	13.2%	257	15.2%	13.2%	212	*			
Total				588	7.8%	5.1%	13.3%	257	15.2%	13.2%	415	16.1%	60.9%	*	*
American Indian or Alaskan Native															
< 1 Year	1,302	8.1%	11.8%	2066	9.2%	3.9%	16.5%	-	-	-	897	13.4%	Breastfeeding data is for		
1 Year				1011	2.9%	0.5%	32.4%	-	-	-	1,054	12.3%	ages through 23 months		
2-4 Years				2458	2.1%	2.4%	18.3%	2,458	21.5%	18.3%	2,149	8.5%			
Total				5535	4.9%	2.6%	20.2%	2,458	21.5%	18.3%	4,100	10.6%	48.7%	16.5%	11.5%

* Percentages are not calculated if <100 records are available for analysis after exclusions.

Table14 (Continued)

Pediatric Nutrition Surveillance System
Statewide Summary of Indicators by Age and Race/Ethnicity
Reporting Period 01/01/2004 to 12/31/2004

Age	Birth weight			Height and Weight				≥ 2 Years Overweight			Anemia		Breastfeeding		
	Number	Low %<250	High %>400	Number	Short Stature %<5th	Under Weight %<5th	Over Weight %>95th	Number	At Risk %>85th & <95th	Over %≤95th	Number	% Low	Ever	Duration 6+ Mo.	12+ Mo.
Asian or Pacific Islander															
< 1 Year	73	*	*	119	6.7%	2.5%	5.9%	-	-	-	55	*	Breastfeeding data is for		
1 Year				41	*	*	*	-	-	-	41	*	ages through 23 months		
2-4 Years				95	*	*	*	95	*	*	83	*			
Total				255	7.1%	2.7%	11.0%	95	*	*	179	16.8%	*	*	*
All Other															
< 1 Year	#	*	*	#	*	*	*	-	-	-	#	*	Breastfeeding data is for		
1 Year				#	*	*	*	-	-	-	#	*	ages through 23 months		
2-4 Years				#	*	*	*	3	*	*	#	*			
Total				4	*	*	*	3	*	*	4	*	*	*	*
All Races and Ethnic Origins															
< 1 Year	5,044	7.9%	8.8%	7861	9.7%	3.8%	11.7%	-	-	-	3,374	11.5%	Breastfeeding data is for		
1 Year				3667	5.2%	2.9%	20.0%	-	-	-	3,930	9.5%	ages through 23 months		
2-4 Years				8605	3.9%	2.6%	13.9%	8,605	18.1%	13.9%	7,181	6.3%			
Total				20133	6.4%	3.1%	14.1%	8,605	18.1%	13.9%	14,485	8.4%	56.8%	19.4%	12.0%

* Percentages are not calculated if <100 records are available for analysis after exclusions.

\# South Dakota Department of Health policy does not permit releasing data with fewer than three events.

Appendices

Appendix A

South Dakota PedNSS Counties by Regions

County	Region
Aurora	Mitchell-Chamberlain
Beadle	Huron-Redfield
Bennett	Pine Ridge Area
Bon Homme	Pickstown Area
Brookings	East Central
Brown	Aberdeen Area
Brule	Mitchell-Chamberlain
Buffalo	South Central
Butte	Northwest Area
Charles Mix	Pickstown Area
Clark	Northeast Area
Clay	Southeast Area
Codington	Northeast Area
Corson	North Central
Custer	Southern Black Hills
Davison	Mitchell-Chamberlain
Day	Aberdeen Area
Deuel	Northeast Area
Dewey	Northwest Area
Douglas	Pickstown Area
Edmunds	North Central
Fall River	Southern Black Hills
Faulk	North Central
Grant	Northeast Area
Gregory	Pickstown Area
Haakon	South Central
Hamlin	East Central
Hand	Oahe Area
Hanson	Mitchell-Chamberlain
Harding	Northwest Area
Hughes	Oahe Area
Hutchinson	Pickstown Area
Hyde	Oahe Area
Jackson	Pine Ridge Area
Jerauld	Mitchell-Chamberlain
Jones	South Central
Kingsbury	East Central
Lake	Sioux Empire Area
Lawrence	Northern Black Hills
Lincoln	Sioux Empire Area
Lyman	South Central
Marshall	Aberdeen Area

Appendix A (Continued)

South Dakota PedNSS Counties by Regions

County	Region
McCook	Sioux Empire Area
McPherson	North Central
Meade	Northern Black Hills
Mellette	South Central
Miner	Sioux Empire Area
Minnehaha	Sioux Falls Area
Moody	East Central
Pennington	Rapid City Area
Perkins	Northwest Area
Potter	Oahe Area
Roberts	Northeast Area
Sanborn	Mitchell-Chamberlain
Shannon	Pine Ridge Area
Spink	Huron-Redfield
Stanley	Oahe Area
Sully	Oahe Area
Tripp	South Central
Turner	Sioux Empire Area
Union	Southeast Area
Walworth	North Central
Yankton	Southeast Area
Ziebach	Northwest Area

Appendix B

South Dakota PedNSS Regions by County

Region	County
Aberdeen Area	Brown
	Day
	Marshall
East Central	Brookings
	Hamlin
	Kingsbury
	Moody
Huron-Redfield	Beadle
	Spink
Mitchell-Chamberlain	Aurora
	Brule
	Davison
	Hanson
	Jerauld
	Sanborn
North Central	Corson
	Edmunds
	Faulk
	McPherson
	Walworth
Northeast Area	Clark
	Codington
	Deuel
	Grant
	Roberts
Northern Black Hills	Lawrence
	Meade
Northwest Area	Butte
	Dewey
	Harding
	Perkins
	Ziebach
Oahe Area	Hand
	Hughes
	Hyde
	Potter
	Stanley
	Sully
Pickstown Area	Bon Homme
	Charles Mix
	Douglas
	Gregory
	Hutchinson

Appendix B (Continued)

South Dakota PedNSS Regions by County

Region	County
Pine Ridge Area	Bennett
	Jackson
	Shannon
Rapid City Area	Pennington
Sioux Empire Area	Lake
	Lincoln
	McCook
	Miner
	Turner
Sioux Falls Area	Minnehaha
South Central	Buffalo
	Haakon
	Jones
	Lyman
	Tripp
Southeast Area	Clay
	Union
	Yankton
Southern Black Hills	Custer
	Fall River